Lake County – Outdoor Wireless Assessment

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For:

Lake County

Prepared for:

Lake County Board of County Commissioners



Prepared by:

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1.0 ABOUT THIS DOCUMENT

1.1 Document Objective

The objective of this document is to provide the results of the wireless survey conducted at remote fire stations and radio towers throughout Lake County. This document will provide the results of the wireless surveys, along with the details for mounting options and heights for each remote and tower site surveyed.

1.2 Document History

Table 2.1 Revision History

| Version No. | Issue Date | Status | Reason for Change |
|-------------|------------|----------|--------------------------------|
| 1.0 | 011/2/2012 | Released | Adrian Araujo, Initial Release |

Table 1.2 Revision Review

| Reviewer's Details | Version No. | Date |
|----------------------------------|-------------|-----------|
| Adrian Araujo & Patricio Chandia | 1.2 | 12/6/2012 |

1.3 Intended Audience

This document is intended for the Lake County network staff and management. It may also be used by Presidio Networked Solutions staff to assist in future support and operation of their network. Presidio will not divulge the content of this report to any third-party without prior consent from Lake County Board of County Commissioners.

1.4 Executive Summary

Lake County Board of County Commissioners (Lake County) is looking to provide a wireless connectivity solution utilizing point-to-multipoint wireless bridging at 24 fire stations spread across Lake County, Florida. Based on the site survey results performed at each fire station and tower site, Presidio Networked Solutions recommends that the Cambium Network 450 series AP will be the best option for this deployment.

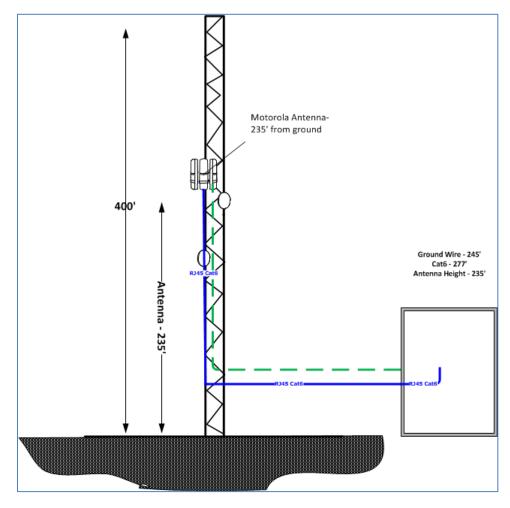
Data for these sites will be transported via existing microwave connection to the Lake County Data Center. This data will be encrypted using Juniper firewalls. At the tower sites Presidio recommends the county use the Cambium PMP 450 with 60 Degree Sectors antennas and at the fire stations the county uses the Cambium PMP subscriber module could reliably provide the targeted 10mb of throughput requested by the county.

Please refer to section 6.0 for the recommended equipment breakout and section 7.0 for hardware specifications regarding the Cambium PMP 450 and Motorola AP 7181.

2.0 LOCATIONS

The images below will show an approximate mounting locations, grounding and CaT6 cable lengths and bearings for each tower and remote surveyed. Shielded CAT5 or CAT6 will be used for each sites cabling.

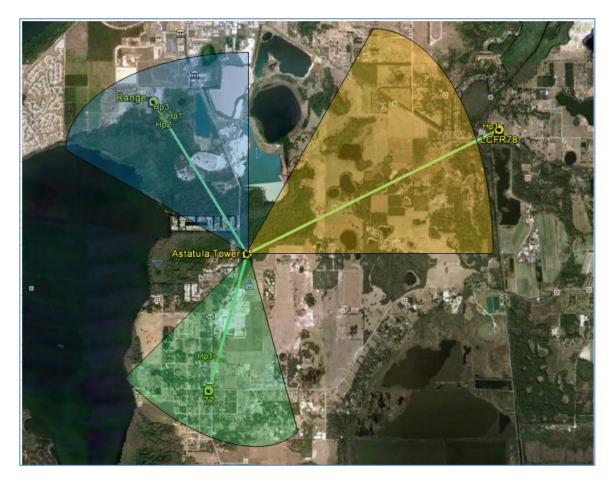
2.1 Tower Site – Astatula Tower



| Name | Latitude | Longitude |
|----------|------------|------------|
| Astatula | 28.729639N | 81.727306W |

| Antenna Height | 235' |
|------------------|------|
| Cat6 Length Est. | 277' |
| Ground Wire Est. | 25' |

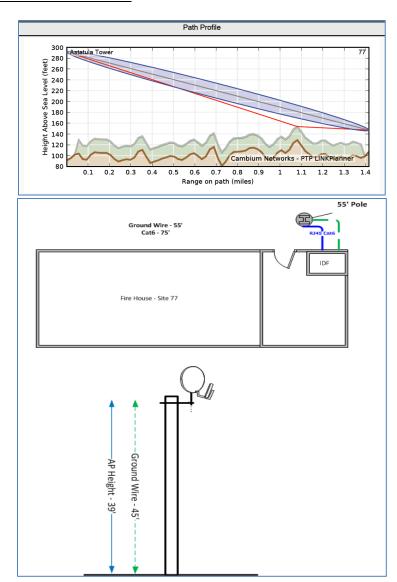
- 1. Astatula Tower site installation specifications:
 - a. Thee PTP450 60 degree Access Points will be install
 - b. Each Access Point will be grounded to existing tower ground bus bar following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - c. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to existing ground bus bar



Antenna Downtilt Angle

| Base Antenna | 235 | Remote Antenna | 50 |
|------------------|-----|--------------------|-----------|
| Height (Feet) | | Height (Feet) | |
| Distance (Miles) | 3 | Downtilt Angle (°) | 0.6691437 |
| Submit | | | |

2.1.1 *Remote Site – LCFR 77*

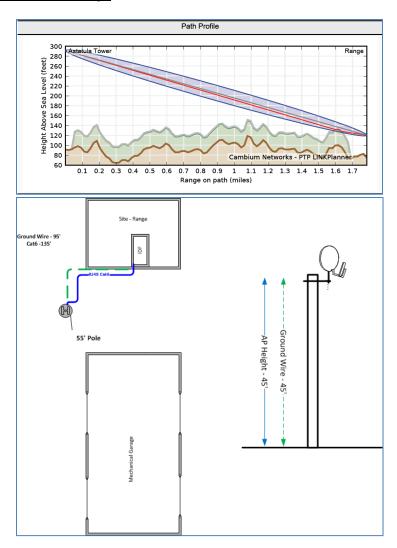


| Name | Latitude | Longitude |
|--------|-----------|-----------|
| LCFR77 | 28.71004N | 81.7342W |

| Antenna Height | 39' |
|-------------------|----------------|
| Cat6 Length Est. | 75' |
| Ground Wire Est. | 55' |
| To Tower | Astatula Tower |
| Distance to Tower | 1.4 miles |
| Left Bearing | 195.7 |
| Right Bearing | 15.7 |

- 1. LCFR77 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 55' direct burial pole
 - d. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - e. Install a ground bus bar at building entry point
 - f. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - g. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

2.1.2 Remote Site – Range

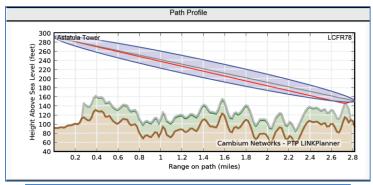


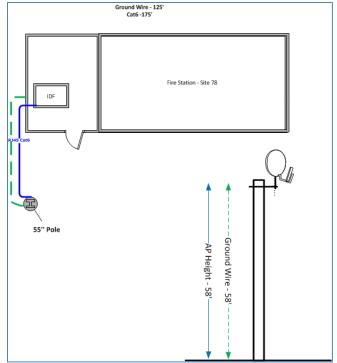
| Name | Latitude | Longitude |
|-------|------------|------------|
| Range | 28.751667N | 81.742778W |

| Antenna Height | 45' |
|-------------------|----------------|
| Cat6 Length Est. | 135' |
| Ground Wire Est. | 95' |
| To Tower | Astatula Tower |
| Distance to Tower | 1.8 miles |
| Left Bearing | 328.2 |
| Right Bearing | 148.2 |

- 1. Range site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 55' direct burial pole
 - d. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - e. Install a ground bus bar at building entry point
 - f. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - g. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

2.1.3 *Remote Site – LCFR 78*



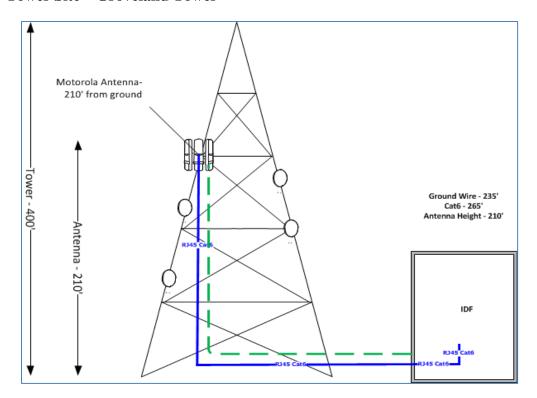


| Name | Latitude | Longitude |
|---------|-----------|------------|
| LCFR 78 | 28.74766N | 081.68560W |

| Antenna Height | 58' |
|-------------------|----------------|
| Cat6 Length Est. | 175' |
| Ground Wire Est. | 125' |
| To Tower | Astatula Tower |
| Distance to Tower | 2.8 miles |
| Left Bearing | 63.9 |
| Right Bearing | 243.9 |

- 1. LCFR78 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 55' direct burial pole
 - d. Extend pole to antenna mounting height using a 2" Sch40 pipe
 - e. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - f. Install a ground bus bar at building entry point
 - g. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - h. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

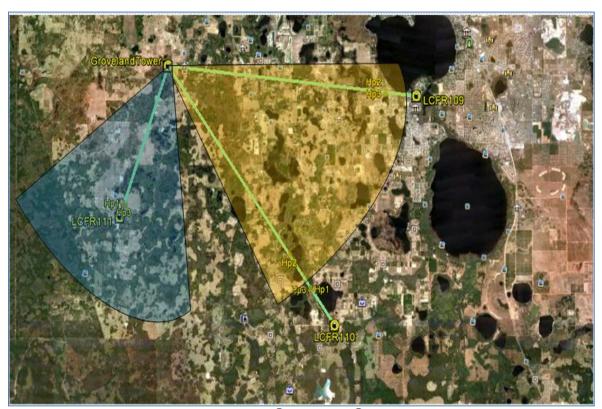
2.2 Tower Site – Groveland Tower



| Name | Latitude | Longitude |
|-----------|-----------|-----------|
| Groveland | 28.52608N | 81.88253W |

| Antenna Height | 210' |
|------------------|------|
| Cat6 Length Est. | 265' |
| Ground Wire Est. | 25' |

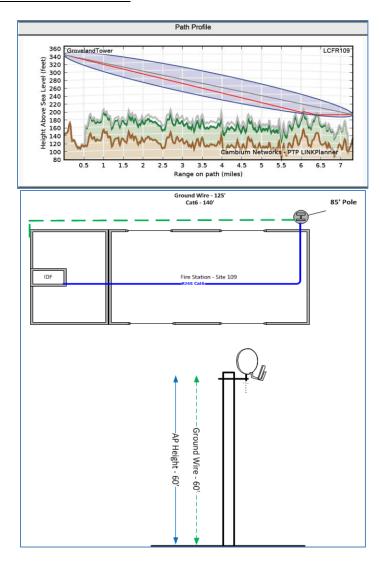
- 1. Groveland Tower site installation specifications:
 - a. Two PTP450 60 degree Access Points will be install
 - b. Each Access Point will be grounded to existing tower ground bus bar following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - c. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to existing ground bus bar



Antenna Downtilt Angle

| Base Antenna | 210 | Remote Antenna | 60 |
|------------------|-----|--------------------|-----------|
| Height (Feet) | | Height (Feet) | |
| Distance (Miles) | 5 | Downtilt Angle (°) | 0.3255406 |

2.2.1 <u>Remote Site – LCFR 109</u>

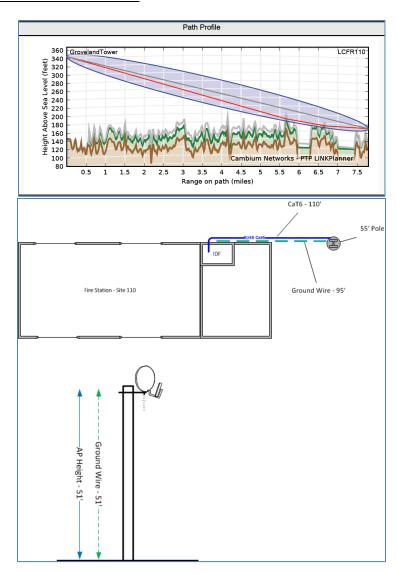


| Name | Latitude | Longitude |
|----------|-----------|------------|
| LCFR 109 | 28.51600N | 081.76293W |

| Antenna Height | 60' |
|-------------------|-----------------|
| Cat6 Length Est. | 140' |
| Ground Wire Est. | 125' |
| To Tower | Groveland Tower |
| Distance to Tower | 7.3 miles |
| Left Bearing | 95.4 |
| Right Bearing | 275.5 |

- 1. LCFR109 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 89' direct burial pole
 - d. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - e. Install a ground bus bar at building entry point
 - f. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - g. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

2.2.2 <u>Remote Site – LCFR 110</u>

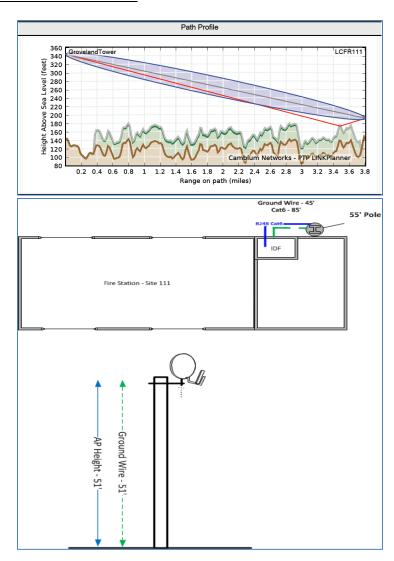


| Name | Latitude | Longitude |
|----------|-----------|------------|
| LCFR 110 | 28.43800N | 081.80228W |

| Antenna Height | 51' |
|-------------------|-----------------|
| Cat6 Length Est. | 110' |
| Ground Wire Est. | 95' |
| To Tower | Groveland Tower |
| Distance to Tower | 7.787 miles |
| Left Bearing | 141.1 |
| Right Bearing | 321.2 |

- 1. LCFR110 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 55' direct burial pole
 - d. Extend pole to antenna mounting height using a 2" Sch40 pipe
 - e. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - f. Install a ground bus bar at building entry point
 - g. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - h. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

2.2.3 <u>Remote Site – LCFR 111</u>

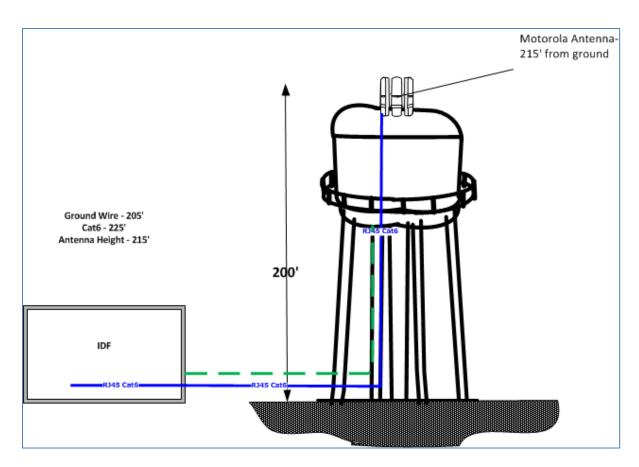


| Right Name | Right Latitude | Right Longitude |
|---------------|-------------------|-----------------|
| LCFR 111 | 28.47472N | 081.90574W |

| Antenna Height | 51' |
|-------------------|-----------------|
| Cat6 Length Est. | 85' |
| Ground Wire Est. | 45' |
| To Tower | Groveland Tower |
| Distance to Tower | 3.808 |
| Left Bearing | 201.8 |
| Right Bearing | 21.8 |

- 1. LCFR111 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 55' direct burial pole
 - d. Extend pole to antenna mounting height using a 2" Sch40 pipe
 - e. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - f. Install a ground bus bar at building entry point
 - g. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - h. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

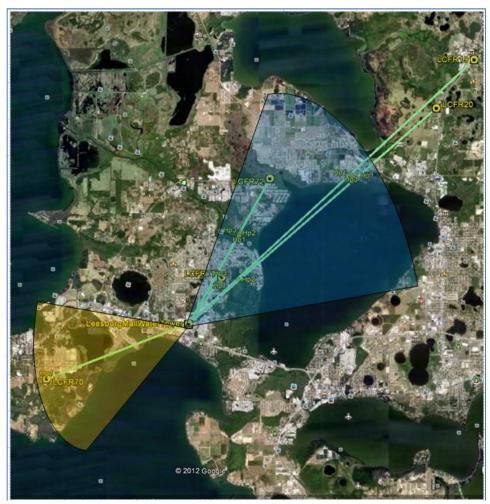
2.3 Tower Site – Leesburg Mall Water Tower (LMWT)



| Name | Latitude | Longitude |
|------|-----------|------------|
| LMWT | 28.82605N | 81.781775W |

| Antenna Height | 215' |
|------------------|------|
| Cat6 Length Est. | 225' |
| Ground Wire Est. | 25' |

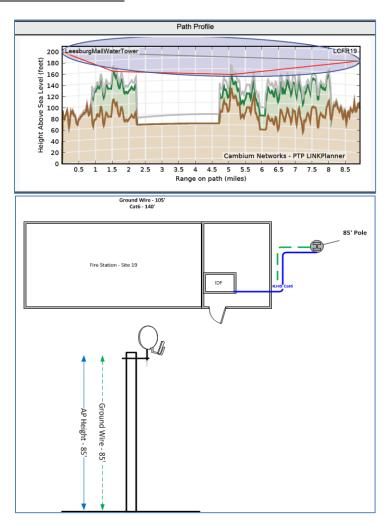
- 1. LMWT Water Tower site installation specifications:
 - a. Two PTP450 60 degree Access Points will be install
 - b. Each Access Point will be grounded to existing tower ground bus bar following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - c. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to existing ground bus bar



Antenna Downtilt Angle

| Base Antenna | 210 | Remote | Antenna | 70 |
|------------------|-----|----------------|---------|-----------|
| Height (Feet) | | Height (Feet) | | |
| Distance (Miles) | 9 | Downtilt Angle | e (°) | 0.1688002 |

2.3.1 *Remote Site – LCFR 19*

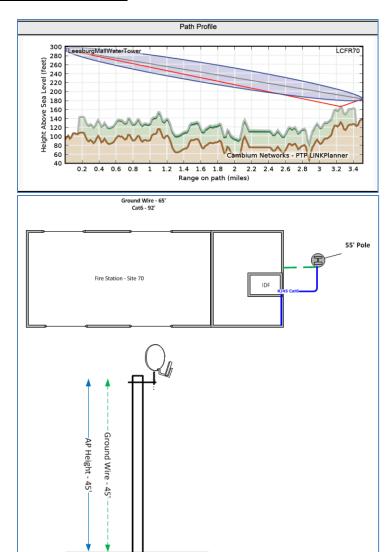


| Name | Latitude | Longitude |
|---------|-----------|-----------|
| LCFR 19 | 28.91392N | 81.67325W |

| Antenna Height | 85' |
|-------------------|-----------|
| Cat6 Length Est. | 140' |
| Ground Wire Est. | 105' |
| To Tower | LMWT |
| Distance to Tower | 8.9 miles |
| Left Bearing | 47.4 |
| Right Bearing | 227.4 |

- 1. LCFR 19 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 89' direct burial pole
 - d. Extend pole to antenna mounting height using a 2" Sch40 pipe
 - e. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - f. Install a ground bus bar at building entry point
 - g. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - h. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

2.3.2 *Remote Site – LCFR 70*

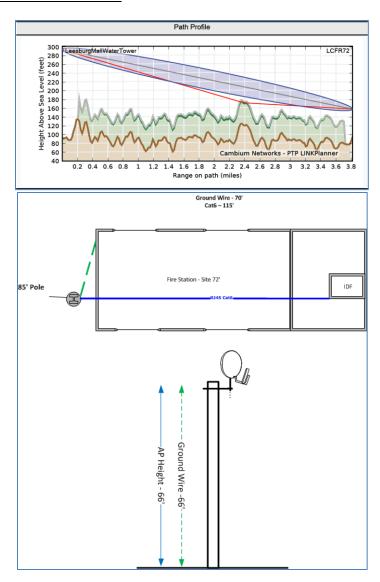


| Right Name | Right Latitude | Right Longitude |
|---------------|-------------------|-----------------|
| LCFR 70 | 28.80768N | 81.835775W |

| Antenna Height | 45' |
|-------------------|-------------|
| Cat6 Length Est. | 92' |
| Ground Wire Est. | 65' |
| To Tower | LMWT |
| Distance to Tower | 3.511 miles |
| Left Bearing | 248.9 |
| Right Bearing | 68.9 |

- 1. LCFR70 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 55' direct burial pole
 - d. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - e. Install a ground bus bar at building entry point
 - f. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - g. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

2.3.3 *Remote Site – LCFR 72*

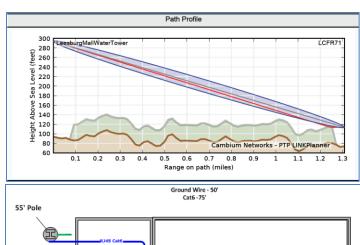


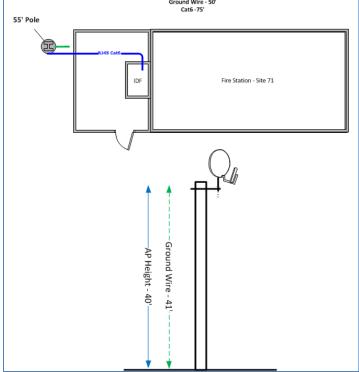
| Name | Latitude | Longitude |
|---------|-----------|-----------|
| LCFR 72 | 28.87439N | 81.75093W |

| Antenna Height | 66' |
|-------------------|-------------|
| Cat6 Length Est. | 115' |
| Ground Wire Est. | 70' |
| To Tower | LMWT |
| Distance to Tower | 3.818 miles |
| Left Bearing | 29.3 |
| Right Bearing | 249.2 |

- 1. LCFR 72 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 89' direct burial pole
 - d. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - e. Install a ground bus bar at building entry point
 - f. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - g. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

2.3.4 *Remote Site – LCFR 71*



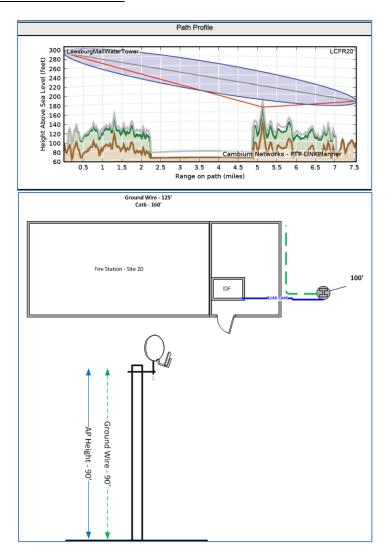


| Name | Latitude | Longitude |
|---------|-----------|-----------|
| LCFR 71 | 28.84155N | 81.7693W |

| Antenna Height | 40' |
|-------------------|-------------|
| Cat6 Length Est. | 75' |
| Ground Wire Est. | 50' |
| To Tower | LMWT |
| Distance to Tower | 1.308 miles |
| Left Bearing | 35.3 |
| Right Bearing | 215.3 |

- 1. LCFR 71 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 55' direct burial pole
 - d. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - e. Install a ground bus bar at building entry point
 - f. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - g. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

2.3.5 *Remote Site – LCFR 20*

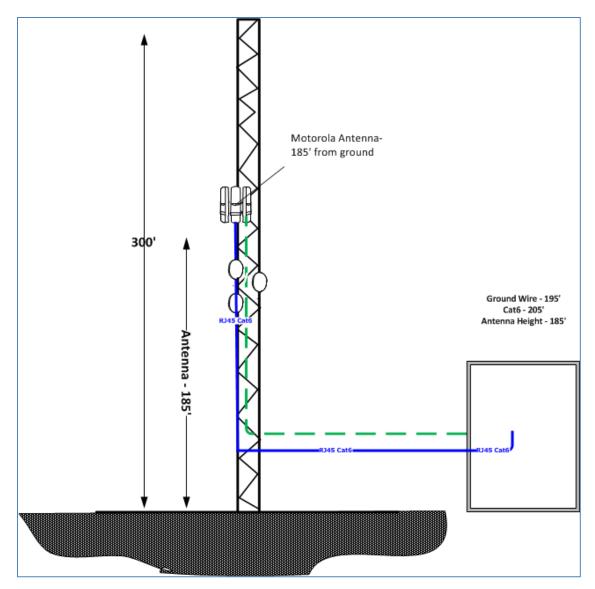


| Name | Latitude | Longitude |
|---------|------------|------------|
| LCFR 20 | 28.916383N | 81.674559W |

| Antenna Height | 90' |
|-------------------|-----------|
| Cat6 Length Est. | 160' |
| Ground Wire Est. | 125' |
| To Tower | LMWT |
| Distance to Tower | 7.5 miles |
| Left Bearing | 49.1 |
| Right Bearing | 229.1 |

- 1. LCFR 20 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 89' direct burial pole
 - d. Extend pole to antenna mounting height using a 2" Sch40 pipe
 - e. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - f. Install a ground bus bar at building entry point
 - g. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - h. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

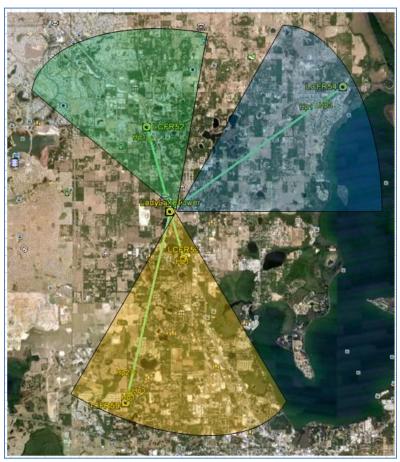
2.4 Tower Site – Lady Lake Tower (LLT)



| Name | Latitude | Longitude |
|-----------|------------|------------|
| Lady Lake | 28.891806N | 81.916722W |

| Antenna Height | 185' |
|------------------|------|
| Cat6 Length Est. | 205' |
| Ground Wire Est. | 25' |

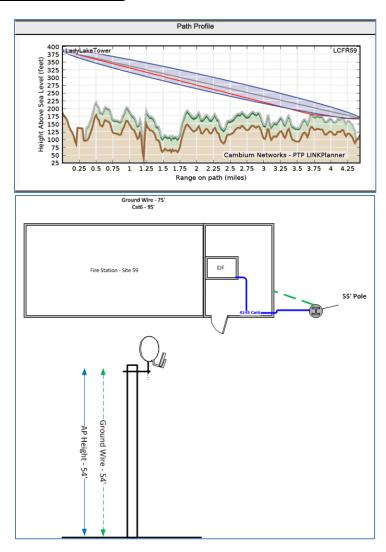
- 1. Lady Lake Tower site installation specifications:
 - a. Three PTP450 60 degree Access Points will be install
 - b. Each Access Point will be grounded to existing tower ground bus bar following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - c. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to existing ground bus bar



Antenna Downtilt Angle

| Base | Antenna | 185 | Remote Anter | nna 60 | |
|---------------|---------|-----|--------------------|-----------|--|
| Height (Feet) | | | Height (Feet) | | |
| Distance (| (Miles) | 5 | Downtilt Angle (°) | 0.2712848 | |
| Submit | | | | | |

2.4.1 Remote Site – LCFR 59

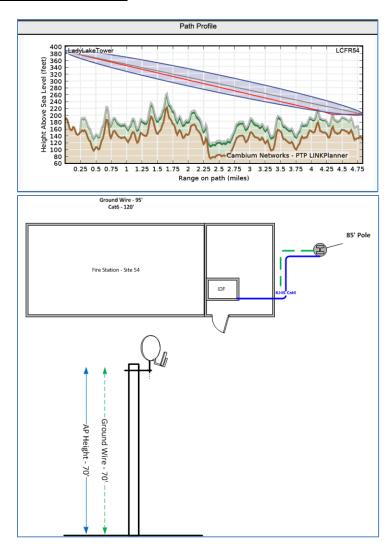


| Name | Latitude | Longitude | |
|---------|-----------|------------|--|
| LCFR 59 | 28.82908N | 081.93321W | |

| Antenna Height | 54' |
|-------------------|-------------|
| Cat6 Length Est. | 95' |
| Ground Wire Est. | 75' |
| To Tower | LLT |
| Distance to Tower | 4.434 miles |
| Left Bearing | 193 |
| Right Bearing | 13 |

- 1. LCFR 59 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 55' direct burial pole
 - d. Extend pole to antenna mounting height using a 2" Sch40 pipe
 - e. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - f. Install a ground bus bar at building entry point
 - g. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - h. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

2.4.2 *Remote Site – LCFR 54*

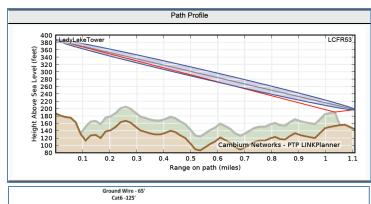


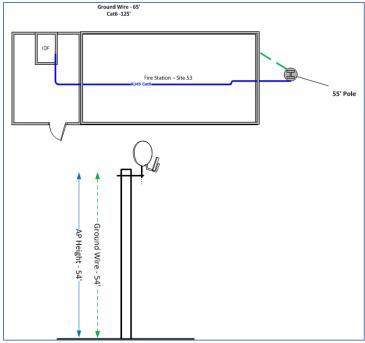
| Name | Latitude | Longitude |
|---------|-----------|------------|
| LCFR 54 | 28.93283N | 081.85201W |

| Antenna Height | 70' |
|-------------------|-------------|
| Cat6 Length Est. | 120' |
| Ground Wire Est. | 95' |
| To Tower | LLT |
| Distance to Tower | 4.833 miles |
| Left Bearing | 54.2 |
| Right Bearing | 234.2 |

- 1. LCFR 54 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 89' direct burial pole
 - d. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - e. Install a ground bus bar at building entry point
 - f. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - g. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

2.4.3 Remote Site – LCFR 53





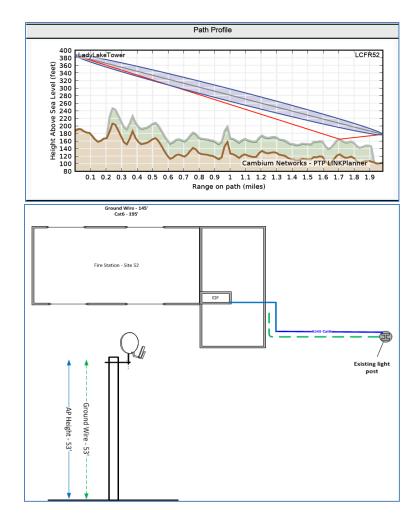
| Name | Latitude | Longitude |
|---------|-----------|------------|
| LCFR 53 | 28.87634N | 081.91168W |

| Antenna Height | 54' |
|-------------------|-------------|
| Cat6 Length Est. | 125' |
| Ground Wire Est. | 65' |
| To Tower | LLT |
| Distance to Tower | 1.108 miles |
| Left Bearing | 164 |
| Right Bearing | 344 |

- 1. LCFR 53 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 55' direct burial pole
 - d. Extend pole to antenna mounting height using a 2" Sch40 pipe
 - e. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - f. Install a ground bus bar at building entry point
 - g. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - h. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

2.4.4 *Remote Site – LCFR 52*

This site may be able to use existing light post located next to the fire station, therefore the mounting post will not be included in the BoM.

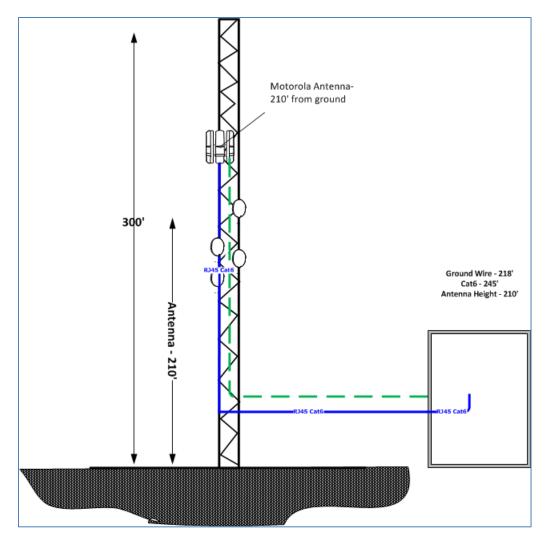


| Name | Latitude | Longitude |
|---------|-----------|------------|
| LCFR 52 | 28.91955N | 081.92557W |

| Antenna Height | 53' |
|-------------------|-------------|
| Cat6 Length Est. | 195' |
| Ground Wire Est. | 145' |
| To Tower | LLT |
| Distance to Tower | 1.984 miles |
| Left Bearing | 344.3 |
| Right Bearing | 164.3 |

- 1. LCFR 52 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 55' direct burial pole
 - d. Extend pole to antenna mounting height using a 2" Sch40 pipe
 - e. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - f. Install a ground bus bar at building entry point
 - g. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - h. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

2.5 Tower Site – Leesburg Water Treatment Tower (LWTT)



| Name | Latitude | Longitude |
|------|------------|------------|
| LWTT | 28.752283N | 81.928036W |

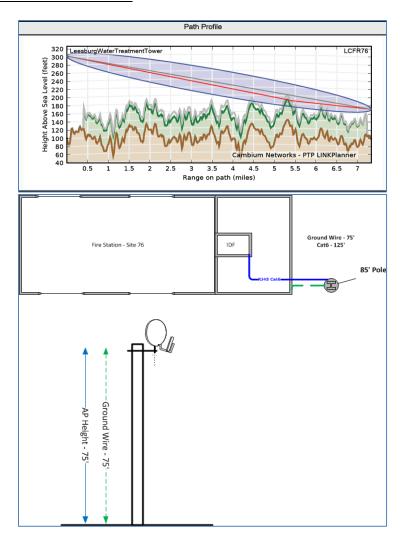
| Antenna Height | 210' |
|------------------|------|
| Cat6 Length Est. | 245' |
| Ground Wire Est. | 25' |

- 1. LW Tower site installation specifications:
 - a. One PTP450 60 degree Access Points will be install
 - b. Each Access Point will be grounded to existing tower ground bus bar following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - c. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to existing ground bus bar



| Base | Antenna | 210 | Remote | Antenna | 60 |
|-------------|---------|-----|---------------|---------|-----------|
| Height (Fe | et) | | Height (Feet) | | |
| Distance (N | Miles) | 8 | Downtilt Ang | le (°) | 0.2034642 |

2.5.1 *Remote Site – LCFR 76*

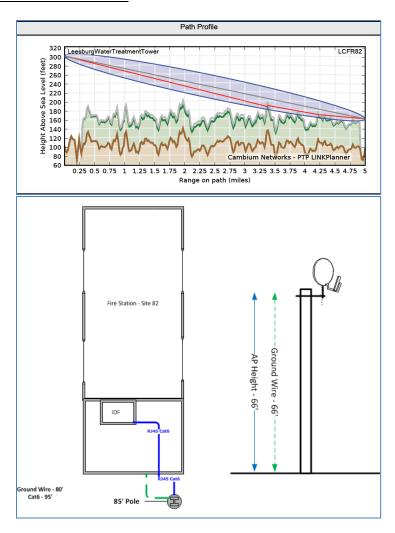


| Name | Latitude | Longitude |
|---------|-----------|------------|
| LCFR 76 | 28.74311N | 081.80775W |

| Antenna Height | 75' |
|-------------------|-------------|
| Cat6 Length Est. | 125' |
| Ground Wire Est. | 75' |
| To Tower | LWTT |
| Distance to Tower | 7.328 miles |
| Left Bearing | 94.9 |
| Right Bearing | 275 |

- 1. LCFR 76 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 89' direct burial pole
 - d. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - e. Install a ground bus bar at building entry point
 - f. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - g. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

2.5.2 *Remote Site – LCFR 82*

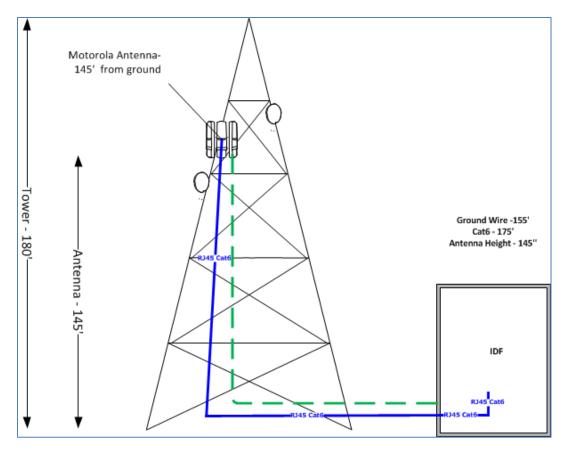


| Name | Latitude | Longitude |
|---------|-----------|------------|
| LCFR 82 | 28.71073N | 081.86047W |

| Antenna Height | 66' |
|-------------------|-------------|
| Cat6 Length Est. | 95' |
| Ground Wire Est. | 80' |
| To Tower | LWTT |
| Distance to Tower | 5.001 miles |
| Left Bearing | 124.9 |
| Right Bearing | 304.9 |

- 1. LCFR 82 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 89' direct burial pole
 - d. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - e. Install a ground bus bar at building entry point
 - f. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - g. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

2.6 Tower Site – Mount Dora Water Tower (MDWT)



| Name | Latitude | Longitude |
|------|------------|-----------|
| MDWT | 28.794186N | 81.6244W |

| Antenna Height | 210' |
|------------------|------|
| Cat6 Length Est. | 245' |
| Ground Wire Est. | 25' |

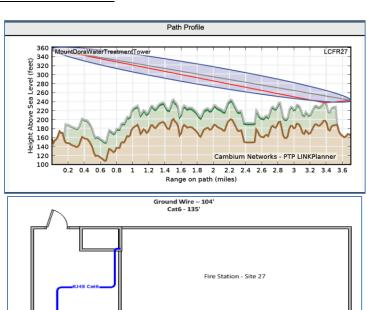
- 1. MDWT Tower site installation specifications:
 - a. One PTP450 60 degree Access Points will be install
 - b. Each Access Point will be grounded to existing tower ground bus bar following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - c. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to existing ground bus bar



| Base Antenr | 1a 210 | Remote Antenna | 60 |
|--|--------|----------------|----|
| Height (Feet) | | Height (Feet) | |
| Distance (Miles) 4 Downtilt Angle (°) 0.4069 | | 0.4069234 | |
| Submit | | | |

2.6.1 *Remote Site – LCFR 27*

85' Pole



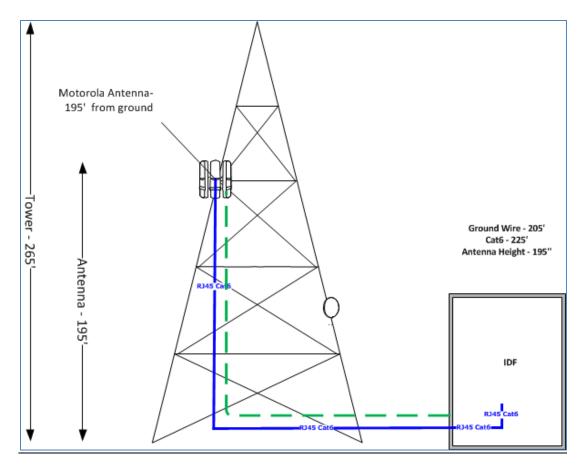
| Name | Latitude | Longitude |
|---------|-----------|------------|
| LCFR 27 | 28.84740N | 081.63327W |

-Ground Wire - 78'

| Antenna Height | 78' |
|-------------------|-------------|
| Cat6 Length Est. | 135' |
| Ground Wire Est. | 104' |
| To Tower | MDWT |
| Distance to Tower | 3.704 miles |
| Left Bearing | 351.7 |
| Right Bearing | 171.6 |

- 1. LCFR 27 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 89' direct burial pole
 - d. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - e. Install a ground bus bar at building entry point
 - f. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - g. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

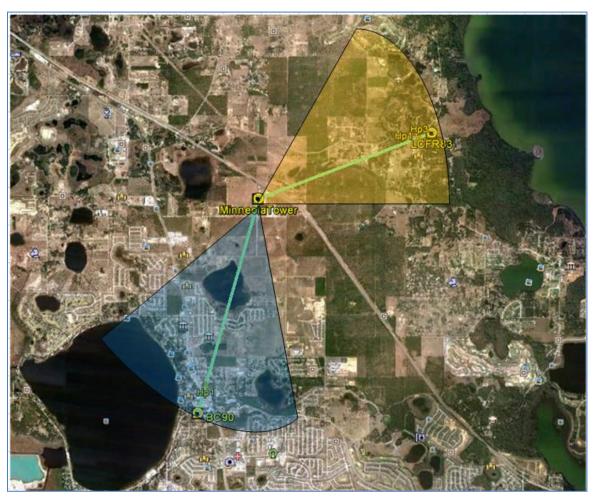
2.7 Tower Site – Minneola Tower



| Name | Latitude | Longitude |
|----------|------------|------------|
| Minneola | 28.611736N | 81.737136W |

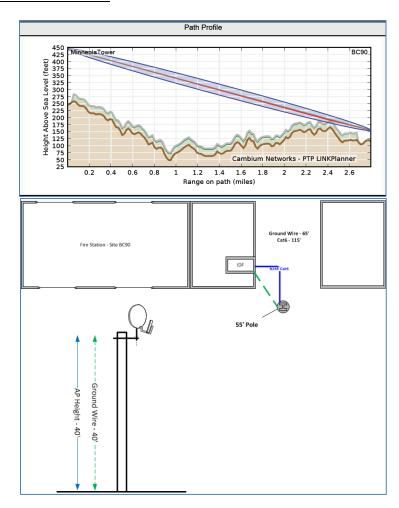
| Antenna Height | 195' |
|------------------|------|
| Cat6 Length Est. | 225' |
| Ground Wire Est. | 25' |

- 1. Minneola Tower site installation specifications:
 - a. Two PTP450 60 degree Access Points will be install
 - b. Each Access Point will be grounded to existing tower ground bus bar following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - c. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to existing ground bus bar



| Base Antenna Height (Feet) | 195 | Remote Height (Feet) | Antenna | 50 |
|-------------------------------|-----|-------------------------|---------|-----------|
| Distance (Miles) | 4 | Downtilt Angle | e (°) | 0.3933597 |

2.7.1 *Remote Site – BC90*

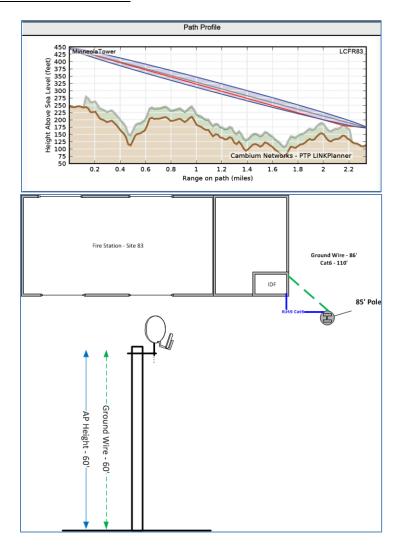


| Name | Latitude | Longitude |
|-------|-----------|------------|
| BC 90 | 28.57270N | 081.74973W |

| Antenna Height | 40' |
|-------------------|----------------|
| Cat6 Length Est. | 115' |
| Ground Wire Est. | 65' |
| To Tower | Minneola Tower |
| Distance to Tower | 2.795 miles |
| Left Bearing | 195.9 |
| Right Bearing | 15.9 |

- 1. BC 90 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 55' direct burial pole
 - d. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - e. Install a ground bus bar at building entry point
 - f. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - g. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

2.7.2 *Remote Site – LCFR 83*

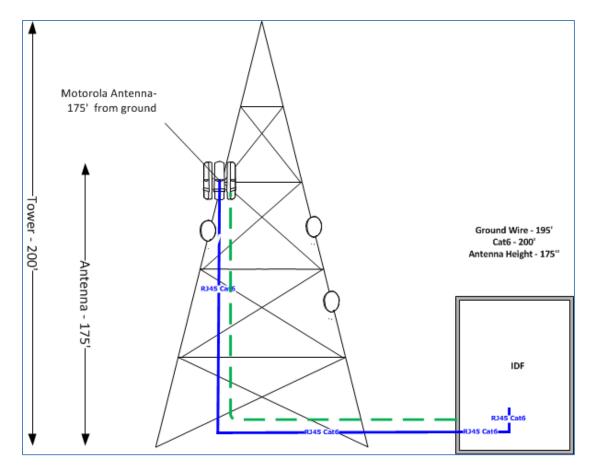


| Name | Latitude | Longitude |
|---------|-----------|------------|
| LCFR 83 | 28.62378N | 081.70118W |

| Antenna Height | 60' |
|-------------------|----------------|
| Cat6 Length Est. | 110' |
| Ground Wire Est. | 86' |
| To Tower | Minneola Tower |
| Distance to Tower | 2.337 miles |
| Left Bearing | 69.2 |
| Right Bearing | 249.2 |

- 1. LCFR 83 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 89' direct burial pole
 - d. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - e. Install a ground bus bar at building entry point
 - f. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - g. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

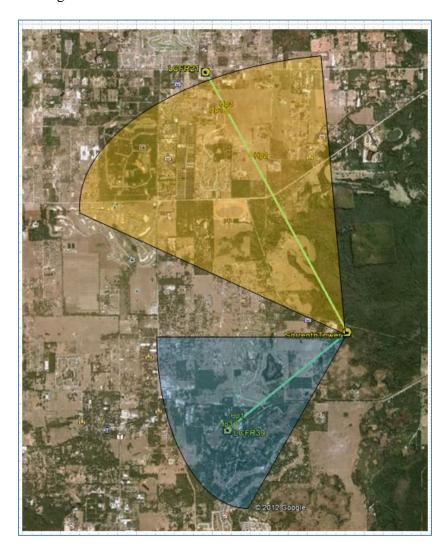
2.8 Tower Site – Sorrento Tower



| Name | Latitude | Longitude |
|----------|------------|------------|
| Sorrento | 28.826222N | 81.509889W |

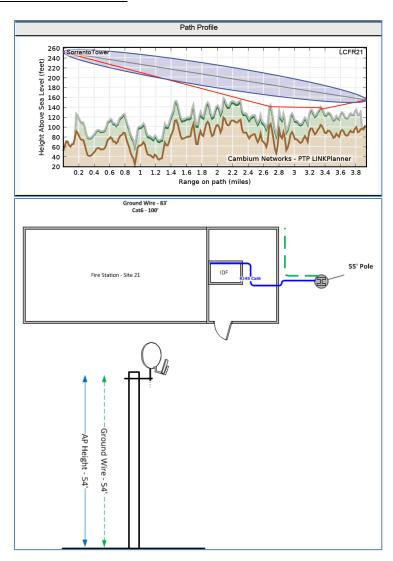
| Antenna Height | 175' |
|------------------|------|
| Cat6 Length Est. | 200' |
| Ground Wire Est. | 25' |

- 1. Sorrento Tower site installation specifications:
 - a. Two PTP450 60 degree Access Points will be install
 - b. Each Access Point will be grounded to existing tower ground bus bar following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - c. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to existing ground bus bar.



| | tenna | 175 | Remote | Antenna | 55 |
|-----------------|-------|-----|---------------|---------|-----------|
| Height (Feet) | | | Height (Feet) | | |
| Distance (Miles | 5) | 4 | Downtilt Angl | e (°) | 0.3255406 |

2.8.1 *Remote Site – LCFR 21*

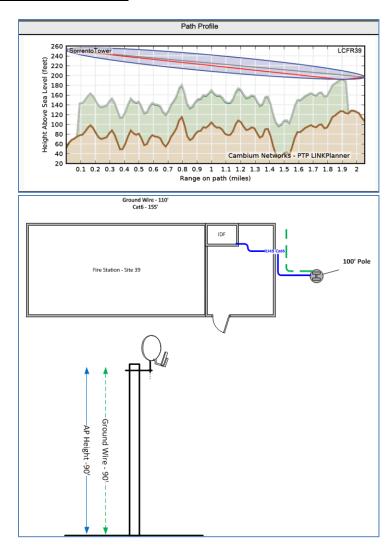


| Name | Latitude | Longitude |
|---------|-----------|------------|
| LCFR 21 | 28.87639N | 081.54098W |

| Antenna Height | 54' |
|-------------------|----------------|
| Cat6 Length Est. | 100' |
| Ground Wire Est. | 83' |
| To Tower | Sorrento Tower |
| Distance to Tower | 3.936 miles |
| Left Bearing | 331.4 |
| Right Bearing | 151.4 |

- 1. LCFR 21 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 55' direct burial pole
 - d. Extend pole to antenna mounting height using a 2" Sch40 pipe
 - e. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - f. Install a ground bus bar at building entry point
 - g. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - h. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

2.8.2 Remote Site – LCFR 39

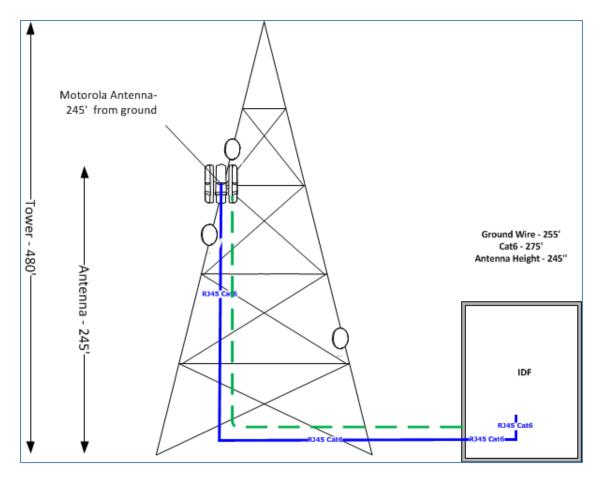


| Name | Latitude | Longitude |
|---------|-----------|------------|
| LCFR 39 | 28.80746N | 081.53621W |

| Antenna Height | 90' |
|-------------------|----------------|
| Cat6 Length Est. | 155' |
| Ground Wire Est. | 110' |
| To Tower | Sorrento Tower |
| Distance to Tower | 2.054 miles |
| Left Bearing | 231 |
| Right Bearing | 51 |

- 1. LCFR 21 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 89' direct burial pole
 - d. Extend pole to antenna mounting height using a 2" Sch40 pipe
 - e. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - f. Install a ground bus bar at building entry point
 - g. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - h. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

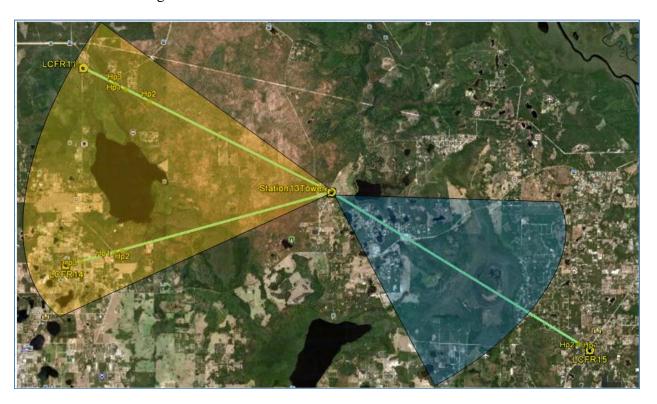
2.9 Tower Site – Station 13 Tower



| Name | Latitude | Longitude |
|------------|------------|------------|
| Station 13 | 28.996672N | 81.537108W |

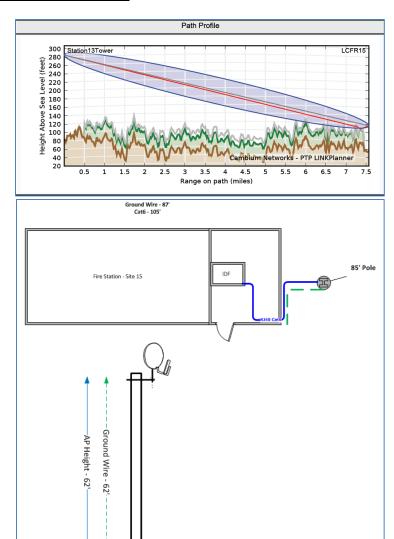
| Antenna Height | 245' |
|------------------|------|
| Cat6 Length Est. | 275' |
| Ground Wire Est. | 25' |

- 1. Station 13 Tower site installation specifications:
 - a. Two PTP450 60 degree Access Points will be install
 - b. Each Access Point will be grounded to existing tower ground bus bar following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - c. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to existing ground bus bar



| Base Antenna | 245 | Remote Antenna | 65 |
|------------------|-----|--------------------|-----------|
| Height (Feet) | | Height (Feet) | |
| Distance (Miles) | 9 | Downtilt Angle (°) | 0.2170284 |

2.9.1 *Remote Site – LCFR 15*

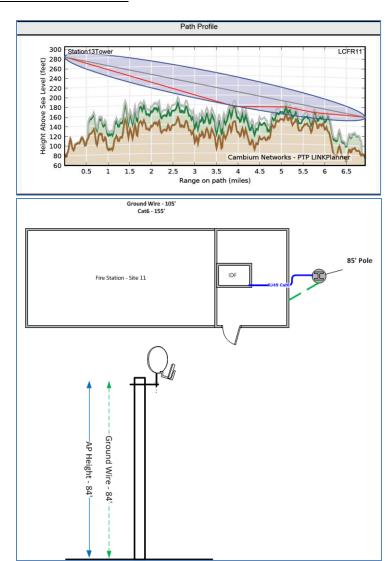


| Name | Latitude | Longitude |
|---------|-----------|------------|
| LCFR 15 | 28.93944N | 081.43049W |

| Antenna Height | 62' |
|-------------------|------------------|
| Cat6 Length Est. | 105' |
| Ground Wire Est. | 87' |
| To Tower | Station 13 Tower |
| Distance to Tower | 7.565 miles |
| Left Bearing | 121.4 |
| Right Bearing | 301.4 |

- 1. LCFR 15 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 89' direct burial pole
 - d. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - e. Install a ground bus bar at building entry point
 - f. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - g. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

2.9.2 *Remote Site – LCFR 11*

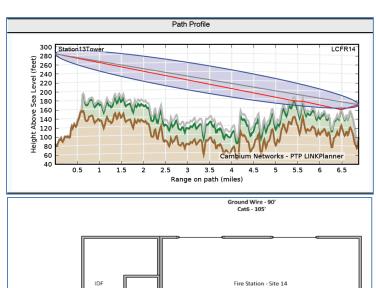


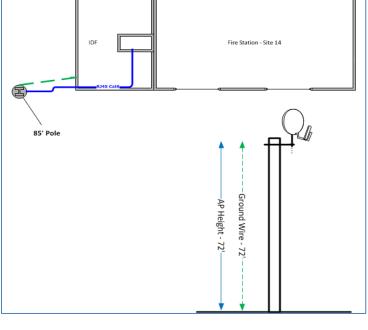
| Name | Latitude | Longitude |
|---------|-----------|------------|
| LCFR 11 | 29.04161N | 081.63961W |

| Antenna Height | 84' |
|-------------------|------------------|
| Cat6 Length Est. | 155' |
| Ground Wire Est. | 105' |
| To Tower | Station 13 Tower |
| Distance to Tower | 6.934 miles |
| Left Bearing | 296.5 |
| Right Bearing | 116.5 |

- 1. LCFR 11 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 89' direct burial pole
 - d. Extend pole to antenna mounting height using a 2" Sch40 pipe
 - e. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - f. Install a ground bus bar at building entry point
 - g. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - h. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

2.9.3 *Remote Site – LCFR 14*





| Name | Latitude | Longitude |
|---------|-----------|------------|
| LCFR 14 | 28.97045N | 081.64673W |

| Antenna Height | 72' |
|-------------------|------------------|
| Cat6 Length Est. | 105' |
| Ground Wire Est. | 90' |
| To Tower | Station 13 Tower |
| Distance to Tower | 6.879 miles |
| Left Bearing | 254.8 |
| Right Bearing | 74.8 |

- 1. LCFR 14 site installation specifications:
 - a. One PTP450 Subscriber unit will be install with a reflector plate
 - b. Align antenna
 - c. Install a 89' direct burial pole
 - d. Extend pole to antenna mounting height using a 2" Sch40 pipe
 - e. Ground pole using Motorola R56 Grounding standards and install lightning dissipation system
 - f. Install a ground bus bar at building entry point
 - g. Each Subscriber unit will be grounded to new ground rods following manufacturer guidelines and Motorola R56 Standards and Guidelines for communications sites
 - h. A Cambium 600SS surge arrestor will be top mounted at antenna location and building entry point each arrestor will be grounded to ground rod and new building bus bar

3.0 SPECTRUM ANALYSIS

Presidio used the Cisco Spectrum Expert tool for identifying any sources of noise or interference detected during the survey and to assist in determining a channel plan for the proposed wireless network. Only valid sources of noise or interference will be reported.

The presence of interference signals can degrade the performance of the RF network. During the site survey, the performance of the RF equipment is observed in order to determine if any signs of RF interference are present. Common sources of interference may include but are not limited to; microwave ovens, cordless telephones, Bluetooth headsets, and other RF systems. Attempts are made during the survey process to identify and accommodate these types of devices. However, devices not in operation during the survey may not be detected during the survey process. Any introduction, change in location, operation, or shielding of this type of equipment or in the physical environment itself may invalidate the recommendations made in this report or completely prohibit use of RF equipment.

The snapshots taken of possible interfering devices found at each remote location are listed below. Although much of the interference detected at each site was on the 2.4 GHz spectrums, this wireless deployment will be fully utilizing the 5 GHz band.

3.1 Site – BC90

| Device ' | Signal Strength (dBm) | Duty Cycle (%) "∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
|------------------------------|-----------------------------|-------------------------|------------------|----------|----------------------|------------------------|-----------------|
| Wi-Fi APs (In-Network) [25] | | | | | | | |
| (00:0B:85:2C:51:1F) (Ch 11) | -63.0 | | Thu Oct 04 11:13 | 00:01:00 | 813 | 00:0B:85:2C:51:1F | 00:0B:85:2C:51: |
| (00:17:9A:25:59:8A) (Ch 1) | -90.0 | | Thu Oct 04 11:13 | 00:00:30 | 12 | 00:17:9A:25:59:8A | 00:17:9A:25:59: |
| abikarram (Ch 1) | -80.0 | | Thu Oct 04 11:14 | 00:00:00 | 14 | 0C:60:76:43:8F:E8 | 0C:60:76:43:8F: |
| allinone (Ch 11) | -80.0 | | Thu Oct 04 11:14 | 00:00:00 | 813 | 58:6D:8F:3E:2F:F4 | 58:6D:8F:3E:2F: |
| allinone-guest (Ch 11) | -82.0 | | Thu Oct 04 11:13 | 00:00:30 | 813 | 58:6D:8F:3E:2F:F6 | 58:6D:8F:3E:2F: |
| belkin.3632 (Ch 9) | -89.0 | | Thu Oct 04 11:12 | 00:01:45 | 810 | 94:44:52:BD:73:51 | 94:44:52:BD:73: |
| belkin.3ef9 (Ch 1) | -78.0 | | Thu Oct 04 11:05 | 00:08:30 | 13 | 94:44:52:AB:CE:F0 | 94:44:52:AB:CE |
| Boykin_Office (Ch 6) | -76.0 | | Thu Oct 04 11:13 | 00:00:45 | 39 | 00:23:69:ED:D8:31 | 00:23:69:ED:D8: |
| C-Hawks (Ch 1) | -89.0 | | Thu Oct 04 11:14 | 00:00:00 | 12 | 5C:D9:98:5C:73:78 | 5C:D9:98:5C:73 |
| dci-p2688 (Ch 8) | -76.0 | | Thu Oct 04 11:09 | 00:05:00 | 610 | 00:15:6D:E4:82:03 | 00:15:6D:E4:82: |
| Don't F with my shit! (Ch 6) | -65.0 | | Thu Oct 04 11:12 | 00:01:15 | 39 | 00:18:F8:C3:63:E9 | 00:18:F8:C3:63: |
| fuqua (Ch 11) | -82.0 | | Thu Oct 04 11:11 | 00:02:45 | 913 | 20:4E:7F:C2:52:B4 | 20:4E:7F:C2:52: |
| greenswireless1_EXT (Ch 9) | -89.0 | | Thu Oct 04 11:14 | 00:00:00 | 810 | 84: 1B: 5E: 32: B7: E8 | 84:1B:5E:32:B7: |
| Jeff Rogers Network (Ch 1) | -89.0 | | Thu Oct 04 11:13 | 00:00:15 | 12 | 58:6D:8F:C1:7E:4A | 58:6D:8F:C1:7E |
| linksys (Ch 6) | -68.0 | | Thu Oct 04 11:05 | 00:08:30 | 48 | 00:25:9C:77:F2:A3 | 00:25:9C:77:F2 |
| maria (Ch 11) | -75.0 | | Thu Oct 04 11:06 | 00:07:45 | 813 | 00:24:B2:B6:89:40 | 00:24:B2:B6:89: |
| Master Key Media (Ch 3) | -79.0 | | Thu Oct 04 11:14 | 00:00:00 | 16 | 28:10:7B:55:1F:1E | 28:10:7B:55:1F: |
| QuietMagnolia (Ch 11) | -80.0 | | Thu Oct 04 11:14 | 00:00:00 | 813 | 68:7F:74:53:DF:6D | 68:7F:74:53:DF |
| Shadow (Ch 1) | -89.0 | | Thu Oct 04 11:14 | 00:00:00 | 12 | 64:27:37:42:E6:D6 | 64:27:37:42:E6: |
| VIRUS (Ch 6) | -89.0 | | Thu Oct 04 11:14 | 00:00:00 | 57 | 00:1E:2A:5E:BA:D6 | 00:1E:2A:5E:BA |
| WELCOME (Ch 11) | -57.0 | | Thu Oct 04 11:05 | 00:08:30 | 813 | 00:0B:85:2C:51:1E | 00:0B:85:2C:51 |
| westell 4011 (Ch 6) | -77.0 | | Thu Oct 04 11:07 | 00:07:00 | 48 | 0C:D5:02:23:1E:DB | 0C:D5:02:23:1E |
| WIFI021610 (Ch 11) | -89.0 | | Thu Oct 04 11:14 | 00:00:00 | 1012 | 00:26:F2:7D:DE:A8 | 00:26:F2:7D:DE |
| WLCBCC (Ch 11) | -57.0 | | Thu Oct 04 11:05 | 00:08:30 | 813 | 00:0B:85:2C:51:1A | 00:0B:85:2C:51 |
| WLCBCC (Ch 149) | -83.0 | | Thu Oct 04 11:05 | 00:08:30 | 149 | 00:0B:85:2C:51:15 | 00:0B:85:2C:51: |

| 5 GHz | interference |
|--------|--------------|
| Device | Channel |
| WLCBCC | 149 |

3.2 Site – LCFR 11

| Device' / | Signal Strength (dBm) | Duty Cycle (%) "∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
|--|-----------------------------|-------------------------|------------------------------------|------------------------------------|----------------------|--|----------------------------------|
| Wi-Fi APs (In-Network) [41] | | | | | | | |
| belkin.31a (Ch 1) | -59.0 | | Mon Oct 01 14:2 | 00:08:45 | 14 | 08:86:3B:19:A3:1A | 08:86:3B:19:A3: |
| belkin.31a (Ch 1) | -80.0 | | Mon Oct 01 14:1 | 00:00:46 (Down) | 14 | 08:86:3B:19:A3:1A | 08:86:3B:19:A3: |
| CenturyLink9918 (Ch 1) | -89.0 | | Mon Oct 01 14:2 | 00:01:30 | 12 | B2:B2:DC:1C:C1:48 | B2:B2:DC:1C:C1 |
| CenturyLink9918 (Ch 1) | -87.0 | | Mon Oct 01 14:2 | 00:00:19 (Down) | 13 | B2:B2:DC:1C:C1:48 | B2:B2:DC:1C:C1 |
| Hughes net (Ch 10) | -89.0 | | Mon Oct 01 14:2 | 00:00:00 | 911 | 0C:D5:02:54:8F:8B | 0C:D5:02:54:8F: |
| Hughes net (Ch 10) | -85.0 | | Mon Oct 01 14:2 | 00:04:12 (Down) | 911 | 0C:D5:02:54:8F:8B | 0C:D5:02:54:8F |
| Hughes net (Ch 10) | -86.0 | | Mon Oct 01 14:2 | 00:00:37 (Down) | 812 | 0C:D5:02:54:8F:8B | 0C:D5:02:54:8F |
| Hughes net (Ch 10) | -88.0 | | Mon Oct 01 14:2 | 00:00:19 (Down) | 812 | 0C:D5:02:54:8F:8B | 0C:D5:02:54:8F |
| Hughes net (Ch 10) | -89.0 | | Mon Oct 01 14:2 | 00:00:19 (Down) | 911 | 0C:D5:02:54:8F:8B | 0C:D5:02:54:8F |
| Hughes net (Ch 10) | -87.0 | | Mon Oct 01 14:2 | 00:00:19 (Down) | 812 | 0C:D5:02:54:8F:8B | 0C:D5:02:54:8F |
| Saunders (Ch 6) | -71.0 | | Mon Oct 01 14:1 | 00:09:30 | 57 | 0C:D5:02:61:2D:A3 | 0C:D5:02:61:2D |
| Stay-The-Fuck-Off-Of-My-N | -86.0 | | Mon Oct 01 14:2 | 00:00:00 | 48 | 00:1E:2A:DE:A8:EA | 00:1E:2A:DE:A8 |
| Stay-The-Fuck-Off-Of-My-N | -86.0 | | Mon Oct 01 14:2 | 00:00:38 (Down) | 48 | 00:1E:2A:DE:A8:EA | 00:1E:2A:DE:A8 |
| TerriGoldber-PC-Wireless (C | -84.0 | | Mon Oct 01 14:2 | 00:00:19 (Down) | 13 | 00:26:F2:77:29:1C | 00:26:F2:77:29 |
| TerriGoldber-PC-Wireless (C | -90.0 | | Mon Oct 01 14:2 | 00:00:47 (Down) | 12 | 00:26:F2:77:29:1C | 00:26:F2:77:29 |
| TerriGoldber-PC-Wireless (C | -89.0 | | Mon Oct 01 14:2 | 00:00:37 (Down) | 12 | 00:26:F2:77:29:1C | 00:26:F2:77:29 |
| westell3570 (Ch 6) | -72.0 | | Mon Oct 01 14:2 | 00:02:15 | 39 | 0C:D5:02:41:B3:EC | 0C:D5:02:41:B3 |
| westell3570 (Ch 6) | -82.0 | | Mon Oct 01 14:2 | 00:00:47 (Down) | 48 | 0C:D5:02:41:B3:EC | 0C:D5:02:41:B3 |
| westell3570 (Ch 6) | -84.0 | | Mon Oct 01 14:2 | 00:00:47 (Down) | 48 | 0C:D5:02:41:B3:EC | 0C:D5:02:41:B3 |
| westell3570 (Ch 6) | -88.0 | | Mon Oct 01 14:2 | 00:00:56 (Down) | 48 | 0C:D5:02:41:B3:EC | 0C:D5:02:41:B3 |
| westell3570 (Ch 6) | -86.0 | | Mon Oct 01 14:2 | 00:00:19 (Down) | 48 | 0C:D5:02:41:B3:EC | 0C:D5:02:41:B3 |
| westell3570 (Ch 6) | -88.0 | | Mon Oct 01 14:2 | 00:00:18 (Down) | 48 | 0C:D5:02:41:B3:EC | 0C:D5:02:41:B3 |
| westell3570 (Ch 6) | -78.0 | | Mon Oct 01 14:1 | 00:01:14 (Down) | 39 | 0C:D5:02:41:B3:EC | 0C:D5:02:41:B3 |
| westell4134 (Ch 6) | -77.0 | | Mon Oct 01 14:2 | 00:01:00 | 39 | 74:44:01:A4:9A:48 | 74:44:01:A4:9A |
| westell4134 (Ch 6) | -79.0 | | Mon Oct 01 14:2 | 00:01:15 (Down) | 48 | 74:44:01:A4:9A:48 | 74:44:01:A4:9A |
| westell4134 (Ch 6) | -85.0 | | Mon Oct 01 14:2 | 00:00:19 (Down) | 48 | 74:44:01:A4:9A:48 | 74:44:01:A4:9A |
| westell5017 (Ch 6) | -77.0 | | Mon Oct 01 14:2 | 00:00:30 | 39 | 0C:D5:02:A8:19:F1 | 0C:D5:02:A8:19 |
| westell5017 (Ch 6) | -74.0 | | Mon Oct 01 14:2 | 00:07:01 (Down) | 39 | 0C:D5:02:A8:19:F1 | 0C:D5:02:A8:19 |
| westell5017 (Ch 6) | -77.0 | | Mon Oct 01 14:2 | 00:01:42 (Down) | 39 | 0C:D5:02:A8:19:F1 | 0C:D5:02:A8:19 |
| westell8032 (Ch 6) | -86.0 | | Mon Oct 01 14:2 | 00:00:00 00:00:00 | 48 | 0C:D5:02:A6:15:11 | 0C:D5:02:A6:15 |
| westell9523 (Ch 6) | -88.0 | | Mon Oct 01 14:2 | 00:00:00 | 48 | 74:44:01:AB:A8:44 | 74:44:01:AB:A8 |
| westell9523 (Ch 6) | -86.0 | | Mon Oct 01 14:2 | 00:00:19 (Down) | 48 | 74:44:01:AB:A8:44 | 74:44:01:AB:A8 |
| westell9523 (Ch 6) | -82.0 | | Mon Oct 01 14:2 | 00:00:19 (Down) | 39 | 74:44:01:AB:A8:44 | 74:44:01:AB:A8 |
| westell9523 (Ch 6) | -86.0 | | Mon Oct 01 14:2 | 00:00:19 (Down) | 48 | 74:44:01:AB:A8:44 | 74:44:01:AB:A8 |
| westell9523 (Ch 6) | -89.0 | | Mon Oct 01 14:2 | 00:01:43 (Down) 00:00:37 (Down) | 57 | 74:44:01:AB:A8:44 | 74:44:01:AB:A8 |
| westell9523 (Ch 6) | -86.0 | | Mon Oct 01 14:2 | 00:00:37 (Down) 00:01:43 (Down) | 48 | 74:44:01:AB:A8:44 | 74:44:01:AB:A8 |
| westell9523 (Ch 6) | -85.0 | | Mon Oct 01 14:2 | 00:01:45 (Down) | 48 | 74:44:01:AB:A8:44 | 74:44:01:AB:A8 |
| westell9523 (Cn 6) westell9523 EXT (Ch 6) | -83.0 | | Mon Oct 01 14:1 Mon Oct 01 14:2 | 00:01:05 (Down) | 48 | 74:44:01:8C:E3:9E | 74:44:01:AB:A8 7A:44:01:8C:E3 |
| westell9523_EXT (Ch 6) | -83.0 -76.0 | | Mon Oct 01 14:2 Mon Oct 01 14:1 | 00:01:00 00:07:56 (Down) | 39 | 7A:44:01:8C:E3:9E 7A:44:01:8C:E3:9E | 7A:44:01:8C:E3 |
| ZyXEL 222 (Ch 6) | -76.0 | | Mon Oct 01 14:1 Mon Oct 01 14:2 | 00:07:56 (Down) 00:00:19 (Down) | 48 | 40:4A:01:8C:E3:9E | 40:4A:03:BC:C2 |
| ZyXEL_222 (Ch 6) | -87.0 -90.0 | | Mon Oct 01 14:2 | 00:00:19 (Down) 00:01:43 (Down) | 48 | 40:4A:03:BC:C2:22 40:4A:03:BC:C2:22 | 40:4A:03:BC:C2 |

3.3 Site – LCFR 14

| Device ' | Signal Strength (dBm) | Duty Cycle (%) *∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
|-------------------------------|-----------------------------|-------------------------|-----------------|-----------------|----------------------|-------------------|------------------|
| ∃ Wi-Fi APs (In-Network) [31] | | | | | | | |
| AES-11 (Ch 3) | -82.0 | | Mon Oct 01 13:4 | 00:00:18 (Down) | 16 | 1C:AF:F7:D3:D3:6F | 1C:AF:F7:D3:D3: |
| AES-16 (Ch 2) | -80.0 | | Mon Oct 01 13:4 | 00:00:18 (Down) | 15 | 1C:7E:E5:30:C9:C4 | 1C:7E:E5:30:C9:0 |
| AES-17 (Ch 2) | -89.0 | | Mon Oct 01 13:4 | 00:00:19 (Down) | 13 | 00:18:E7:E8:D1:23 | 00:18:E7:E8:D1:2 |
| AES-17 (Ch 2) | -87.0 | | Mon Oct 01 13:3 | 00:00:19 (Down) | 14 | 00:18:E7:E8:D1:23 | 00:18:E7:E8:D1:2 |
| AES-17 (Ch 2) | -89.0 | | Mon Oct 01 13:3 | 00:00:18 (Down) | 13 | 00:18:E7:E8:D1:23 | 00:18:E7:E8:D1:2 |
| AES-20 (Ch 1) | -84.0 | | Mon Oct 01 13:4 | 00:00:28 (Down) | 13 | B8:A3:86:5C:D1:85 | B8:A3:86:5C:D1: |
| AES-20 (Ch 1) | -89.0 | | Mon Oct 01 13:4 | 00:00:18 (Down) | 12 | B8:A3:86:5C:D1:85 | B8:A3:86:5C:D1: |
| AES-3 (Ch 2) | -89.0 | | Mon Oct 01 13:3 | 00:00:18 (Down) | 13 | 14:D6:4D:33:79:64 | 14:D6:4D:33:79: |
| AES-4 (Ch 1) | -88.0 | | Mon Oct 01 13:4 | 00:00:19 (Down) | 13 | 00:26:5A:FA:FD:D4 | 00:26:5A:FA:FD: |
| AES-4 (Ch 1) | -87.0 | | Mon Oct 01 13:3 | 00:00:28 (Down) | 13 | 00:26:5A:FA:FD:D4 | 00:26:5A:FA:FD: |
| AES-4 (Ch 1) | -86.0 | | Mon Oct 01 13:3 | 00:00:19 (Down) | 13 | 00:26:5A:FA:FD:D4 | 00:26:5A:FA:FD: |
| AES-4 (Ch 1) | -87.0 | | Mon Oct 01 13:3 | 00:00:56 (Down) | 13 | 00:26:5A:FA:FD:D4 | 00:26:5A:FA:FD: |
| AES-5 (Ch 2) | -80.0 | | Mon Oct 01 13:4 | 00:00:00 | 15 | 14:D6:4D:30:73:E6 | 14:D6:4D:30:73: |
| AES-5 (Ch 2) | -83.0 | | Mon Oct 01 13:4 | 00:02:01 (Down) | 14 | 14:D6:4D:30:73:E6 | 14:D6:4D:30:73: |
| AES-5 (Ch 2) | -79.0 | | Mon Oct 01 13:3 | 00:03:25 (Down) | 15 | 14:D6:4D:30:73:E6 | 14:D6:4D:30:73: |
| AES-6 (Ch 2) | -72.0 | | Mon Oct 01 13:3 | 00:06:15 | 15 | 1C:7E:E5:30:68:62 | 1C:7E:E5:30:68: |
| AES-6 (Ch 2) | -87.0 | | Mon Oct 01 13:3 | 00:00:38 (Down) | 14 | 1C:7E:E5:30:68:62 | 1C:7E:E5:30:68: |
| AES-7 (Ch 4) | -80.0 | | Mon Oct 01 13:4 | 00:00:18 (Down) | 17 | 14:D6:4D:33:79:C4 | 14:D6:4D:33:79: |
| AES-7 (Ch 4) | -86.0 | | Mon Oct 01 13:4 | 00:00:18 (Down) | 26 | 14:D6:4D:33:79:C4 | 14:D6:4D:33:79: |
| AES-7 (Ch 4) | -88.0 | | Mon Oct 01 13:3 | 00:01:24 (Down) | 26 | 14:D6:4D:33:79:C4 | 14:D6:4D:33:79: |
| AES-7 (Ch 4) | -87.0 | | Mon Oct 01 13:3 | 00:00:47 (Down) | 26 | 14:D6:4D:33:79:C4 | 14:D6:4D:33:79: |
| AES-7 (Ch 4) | -84.0 | | Mon Oct 01 13:3 | 00:01:43 (Down) | 17 | 14:D6:4D:33:79:C4 | 14:D6:4D:33:79: |
| AES-8 (Ch 6) | -89.0 | | Mon Oct 01 13:4 | 00:00:18 (Down) | 57 | 00:13:10:3C:52:6F | 00:13:10:3C:52: |
| AES-8 (Ch 6) | -92.0 | | Mon Oct 01 13:3 | 00:00:19 (Down) | 57 | 00:13:10:3C:52:6F | 00:13:10:3C:52: |
| FG Mobile Home (Ch 6) | -90.0 | | Mon Oct 01 13:4 | 00:00:28 (Down) | 57 | 00:1D:7E:DB:C8:C2 | 00:1D:7E:DB:C8: |
| FG Mobile Home (Ch 6) | -86.0 | | Mon Oct 01 13:4 | 00:00:19 (Down) | 48 | 00:1D:7E:DB:C8:C2 | 00:1D:7E:DB:C8: |
| FG Mobile Home (Ch 6) | -86.0 | | Mon Oct 01 13:3 | 00:02:48 (Down) | 48 | 00:1D:7E:DB:C8:C2 | 00:1D:7E:DB:C8: |
| FG Mobile Home (Ch 6) | -87.0 | | Mon Oct 01 13:3 | 00:01:33 (Down) | 48 | 00:1D:7E:DB:C8:C2 | 00:1D:7E:DB:C8: |
| FG Mobile Home (Ch 6) | -89.0 | | Mon Oct 01 13:3 | 00:00:19 (Down) | 57 | 00:1D:7E:DB:C8:C2 | 00:1D:7E:DB:C8: |
| FRV (Ch 1) | -88.0 | | Mon Oct 01 13:3 | 00:00:19 (Down) | 13 | 00:02:6F:52:CC:4C | 00:02:6F:52:CC: |
| FRV (Ch 1) | -88.0 | | Mon Oct 01 13:3 | 00:00:38 (Down) | 13 | 00:02:6F:52:CC:4C | 00:02:6F:52:CC: |

3.4 Site – LCFR 15

| Device' / | Signal Strength (dBm) | Duty Cyde (%) *∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
|-----------------------------|-----------------------------|------------------------|------------------|-----------------|----------------------|-------------------|------------------|
| Wi-Fi APs (In-Network) [27] | | | | | | | |
| Lakeview Internet (Ch 11) | -89.0 | | Tue Oct 02 11:12 | 00:00:18 (Down) | 1012 | 00:26:5A:FA:D3:3A | 00:26:5A:FA:D3:3 |
| linksys_WPS_3373 (Ch 6) | -88.0 | | Tue Oct 02 11:17 | 00:00:18 (Down) | 48 | 98:FC:11:D6:9A: | 98:FC:11:D6:9A: |
| linksys_WPS_3373 (Ch 6) | -84.0 | | Tue Oct 02 11:11 | 00:00:28 (Down) | 48 | 98:FC:11:D6:9A: | 98:FC:11:D6:9A:. |
| linksys_WPS_3373 (Ch 6) | -85.0 | | Tue Oct 02 11:10 | 00:00:18 (Down) | 48 | 98:FC:11:D6:9A: | 98:FC:11:D6:9A:. |
| linksys_WPS_3373 (Ch 6) | -84.0 | | Tue Oct 02 11:09 | 00:00:47 (Down) | 39 | 98:FC:11:D6:9A: | 98:FC:11:D6:9A:. |
| my wifi (Ch 6) | -78.0 | | Tue Oct 02 11:18 | 00:01:15 | 39 | 98:FC:11:D6:E8:76 | 98:FC:11:D6:E8:7 |
| my wifi (Ch 6) | -81.0 | | Tue Oct 02 11:13 | 00:04:51 (Down) | 39 | 98:FC:11:D6:E8:76 | 98:FC:11:D6:E8:7 |
| my wifi (Ch 6) | -76.0 | | Tue Oct 02 11:09 | 00:03:17 (Down) | 39 | 98:FC:11:D6:E8:76 | 98:FC:11:D6:E8:7 |
| NETGEAR (Ch 11) | -84.0 | | Tue Oct 02 11:19 | 00:00:00 | 913 | 00:1E:2A:59:50:46 | 00:1E:2A:59:50:4 |
| NETGEAR (Ch 11) | -88.0 | | Tue Oct 02 11:16 | 00:00:19 (Down) | 913 | 00:1E:2A:59:50:46 | 00:1E:2A:59:50:4 |
| NETGEAR (Ch 11) | -86.0 | | Tue Oct 02 11:15 | 00:00:18 (Down) | 913 | 00:1E:2A:59:50:46 | 00:1E:2A:59:50:4 |
| NETGEAR (Ch 11) | -86.0 | | Tue Oct 02 11:12 | 00:00:19 (Down) | 913 | 00:1E:2A:59:50:46 | 00:1E:2A:59:50:4 |
| NETGEAR (Ch 11) | -88.0 | | Tue Oct 02 11:11 | 00:01:05 (Down) | 913 | 00:1E:2A:59:50:46 | 00:1E:2A:59:50:4 |
| NETGEAR (Ch 11) | -88.0 | | Tue Oct 02 11:10 | 00:00:19 (Down) | 913 | 00:1E:2A:59:50:46 | 00:1E:2A:59:50:4 |
| NETGEAR (Ch 11) | -81.0 | | Tue Oct 02 11:09 | 00:00:37 (Down) | 813 | 00:1E:2A:59:50:46 | 00:1E:2A:59:50:4 |
| NETGEAR (Ch 11) | -87.0 | | Tue Oct 02 11:08 | 00:00:18 (Down) | 913 | 00:1E:2A:59:50:46 | 00:1E:2A:59:50:4 |
| westell5445 (Ch 6) | -89.0 | | Tue Oct 02 11:14 | 00:00:19 (Down) | 57 | 0C:D5:02:84:48:AE | 0C:D5:02:84:48:A |
| westell5445 (Ch 6) | -88.0 | | Tue Oct 02 11:13 | 00:00:19 (Down) | 48 | 0C:D5:02:84:48:AE | 0C:D5:02:84:48:A |
| westell6477 (Ch 6) | -89.0 | | Tue Oct 02 11:19 | 00:00:37 (Down) | 57 | 0C:D5:02:5B:42:34 | 0C:D5:02:5B:42:3 |
| westell6477 (Ch 6) | -88.0 | | Tue Oct 02 11:16 | 00:00:19 (Down) | 48 | 0C:D5:02:5B:42:34 | 0C:D5:02:5B:42:3 |
| westell6477 (Ch 6) | -89.0 | | Tue Oct 02 11:14 | 00:00:19 (Down) | 57 | 0C:D5:02:5B:42:34 | 0C:D5:02:5B:42:3 |
| westell6477 (Ch 6) | -88.0 | | Tue Oct 02 11:12 | 00:00:19 (Down) | 48 | 0C:D5:02:5B:42:34 | 0C:D5:02:5B:42:3 |
| westell6477 (Ch 6) | -86.0 | | Tue Oct 02 11:10 | 00:01:24 (Down) | 48 | 0C:D5:02:5B:42:34 | 0C:D5:02:5B:42:3 |
| westell6477 (Ch 6) | -82.0 | | Tue Oct 02 11:09 | 00:00:38 (Down) | 39 | 0C:D5:02:5B:42:34 | 0C:D5:02:5B:42:3 |
| westell6477 (Ch 6) | -84.0 | | Tue Oct 02 11:08 | 00:00:28 (Down) | 48 | 0C:D5:02:5B:42:34 | 0C:D5:02:5B:42: |
| westell8883 (Ch 6) | -69.0 | | Tue Oct 02 11:09 | 00:09:45 | 39 | E0:46:9A:D9:3E:4C | E0:46:9A:D9:3E:4 |
| westell8883 (Ch 6) | -89.0 | | Tue Oct 02 11:09 | 00:00:19 (Down) | 57 | E0:46:9A:D9:3E:4C | E0:46:9A:D9:3E:4 |

3.5 Site – LCFR 19

| Device ' | Signal Strength (dBm) | Duty Cyde (%) "∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
|------------------------------|-----------------------------|------------------------|-----------------|-----------------|----------------------|-------------------|-------------------|
| ☐ Bluetooth [5] | | | | | | | |
| Bluetooth Paging/Inquiry De | -63.8 | | Wed Oct 10 10:4 | 00:02:22 (Down) | N/A | 28:43:31 | |
| ☐ Piconet 1 [1] | | | | | | | |
| Device 1 | -83.9 | 25 | Wed Oct 10 10:3 | 00:01:45 (Down) | 58 | EB:7B:9C | |
| ☐ Piconet 2 [1] | | | | | | | |
| Device 1 | -89.7 | 14 | Wed Oct 10 10:3 | 00:02:44 (Down) | 58 | EB:7B:9A | |
| ☐ Piconet 3 [1] | | | | | | | |
| Device 1 | -59.7 | 17 | Wed Oct 10 10:4 | 00:00:47 (Down) | 18 | EB:7B:9C | |
| ☐ Piconet 4 [1] | | | | | | | |
| Device 1 | -63.9 | 28 | Wed Oct 10 10:4 | 00:00:00 | 13;5 | EB:7B:9A | |
| ☐ Wi-Fi APs (In-Network) [4] | | | | | | | |
| belkin54g (Ch 1) | -83.0 | | Wed Oct 10 10:4 | 00:00:37 (Down) | 14 | 00:1C:DF:CC:E6:60 | 00:1C:DF:CC:E6:60 |
| LE (Ch 7) | -84.0 | | Wed Oct 10 10:4 | 00:02:02 (Down) | 59 | 00:19:3B:80:B0:3D | 00:19:3B:80:B0:3D |
| LE (Ch 7) | -76.0 | | Wed Oct 10 10:4 | 00:00:28 (Down) | 410 | 00:19:3B:80:B0:3D | 00:19:3B:80:B0:3D |
| westell6424 (Ch 6) | -78.0 | | Wed Oct 10 10:4 | 00:00:18 (Down) | 39 | 74:44:01:AC:E3:83 | 74:44:01:AC:E3:83 |

3.6 Site – LCFR 20

| Device ' | Signal Strength (dBm) | Duty Cyde (%) "∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
|-------------------------------|-----------------------------|------------------------|-----------------|-----------------|----------------------|-------------------|-------------------|
| ⊟ Bluetooth [3] | | | | | | | |
| Bluetooth Paging/Inquiry De | -51.9 | | Wed Oct 10 11:0 | 00:09:30 | 15;11 | EB:7B:66 | |
| ☐ Piconet 1 [1] | | | | | | | |
| Device 1 | -88.3 | 24 | Wed Oct 10 11:0 | 00:06:12 (Down) | 12;58 | EB:7B:9A | |
| ☐ Piconet 2 [1] | | | | | | | |
| Device 1 | -79.6 | 15 | Wed Oct 10 11:0 | 00:03:03 (Down) | 58 | EB:7B:9C | |
| ☐ Wi-Fi APs (In-Network) [24] | | | | | | | |
| (00:0B:85:2C:51:BF) (Ch 11) | -86.0 | | Wed Oct 10 11:1 | 00:00:19 (Down) | 913 | 00:0B:85:2C:51:BF | 00:0B:85:2C:51:B |
| (00:0B:85:2C:51:BF) (Ch 11) | -82.0 | | Wed Oct 10 11:0 | 00:01:24 (Down) | 913 | 00:0B:85:2C:51:BF | 00:0B:85:2C:51:BF |
| Cisco32625 (Ch 1) | -88.0 | | Wed Oct 10 11:1 | 00:00:00 | 13 | C0:C1:C0:D9:16:19 | C0:C1:C0:D9:16:1 |
| Cisco32625 (Ch 1) | -88.0 | | Wed Oct 10 11:0 | 00:00:28 (Down) | 13 | C0:C1:C0:D9:16:19 | C0:C1:C0:D9:16:1 |
| Cisco32625 (Ch 1) | -87.0 | | Wed Oct 10 11:0 | 00:00:18 (Down) | 13 | C0:C1:C0:D9:16:19 | C0:C1:C0:D9:16:1 |
| Cisco32625 (Ch 1) | -90.0 | | Wed Oct 10 11:0 | 00:00:18 (Down) | 12 | C0:C1:C0:D9:16:19 | C0:C1:C0:D9:16:1 |
| CWP SOUND (Ch 11) | -82.0 | | Wed Oct 10 11:0 | 00:00:19 (Down) | 813 | F8:1E:DF:FE:56:EF | F8:1E:DF:FE:56:E |
| CWP SOUND (Ch 11) | -91.0 | | Wed Oct 10 11:0 | 00:00:18 (Down) | 1012 | F8:1E:DF:FE:56:EF | F8:1E:DF:FE:56:E |
| CWP SOUND (Ch 11) | -88.0 | | Wed Oct 10 11:0 | 00:00:21 (Down) | 913 | F8:1E:DF:FE:56:EF | F8:1E:DF:FE:56:E |
| danandleah88 (Ch 6) | -82.0 | | Wed Oct 10 11:0 | 00:00:19 (Down) | 39 | A0:21:B7:84:43:BE | A0:21:B7:84:43:B |
| HOME-67F2 (Ch 11) | -85.0 | | Wed Oct 10 11:0 | 00:00:37 (Down) | 913 | 00:1D:D3:3F:67:F0 | 00:1D:D3:3F:67:F |
| MiFi4620L Jetpack D56F Sec | -82.0 | | Wed Oct 10 11:0 | 00:00:25 (Down) | 14 | 00:15:FF:1A:D5:6F | 00:15:FF:1A:D5:6 |
| The Mancave (Ch 11) | -91.0 | | Wed Oct 10 11:0 | 00:00:18 (Down) | 1012 | 00:1A:70:48:22:71 | 00:1A:70:48:22:7 |
| The Mancave (Ch 11) | -93.0 | | Wed Oct 10 11:0 | 00:00:37 (Down) | None | 00:1A:70:48:22:71 | 00:1A:70:48:22:7 |
| The Mancave (Ch 11) | -90.0 | | Wed Oct 10 11:0 | 00:00:19 (Down) | 1012 | 00:1A:70:48:22:71 | 00:1A:70:48:22:7 |
| WELCOME (Ch 11) | -95.0 | | Wed Oct 10 11:1 | 00:00:45 | None | 00:0B:85:2C:51:BE | 00:0B:85:2C:51:B |
| WELCOME (Ch 11) | -84.0 | | Wed Oct 10 11:1 | 00:00:19 (Down) | 913 | 00:0B:85:2C:51:BE | 00:0B:85:2C:51:B |
| WELCOME (Ch 11) | -84.0 | | Wed Oct 10 11:0 | 00:08:22 (Down) | 813 | 00:0B:85:2C:51:BE | 00:0B:85:2C:51:B |
| WLCBCC (Ch 11) | -92.0 | | Wed Oct 10 11:1 | 00:00:45 | 1012 | 00:0B:85:2C:51:BA | 00:0B:85:2C:51:B |
| WLCBCC (Ch 11) | -86.0 | | Wed Oct 10 11:1 | 00:00:19 (Down) | 913 | 00:0B:85:2C:51:BA | 00:0B:85:2C:51:B |
| WLCBCC (Ch 11) | -83.0 | | Wed Oct 10 11:0 | 00:01:24 (Down) | 913 | 00:0B:85:2C:51:BA | 00:0B:85:2C:51:B |
| WLCBCC (Ch 11) | -73.0 | | Wed Oct 10 11:0 | 00:06:48 (Down) | 813 | 00:0B:85:2C:51:BA | 00:0B:85:2C:51:B |
| WLCBCC (Ch 161) | -85.0 | | Wed Oct 10 11:0 | 00:00:19 (Down) | 161 | 00:0B:85:2C:51:B5 | 00:0B:85:2C:51:B |
| WLCBCC (Ch 161) | -83.0 | | Wed Oct 10 11:0 | 00:05:52 (Down) | 161 | 00:0B:85:2C:51:B5 | 00:0B:85:2C:51:B |

| 5 GHz i | nterference |
|---------|-------------|
| Device | Channel |
| WLCBCC | 161 |
| WLCBCC | 161 |

3.7 Site – LCFR 21

| Device' / | Signal Strength (dBm) | Duty Cyde (%) "∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
|-------------------------------|-----------------------------|------------------------|------------------|-----------------|----------------------|-------------------|-------------------|
| □ Wi-Fi APs (In-Network) [19] | | | | | | | |
| Freedom (Ch 1) | -88.0 | | Tue Oct 02 12:35 | 00:00:00 | 13 | 00:25:9C:4A:76:22 | 00:25:9C:4A:76:22 |
| FZR 18 (Ch 11) | -70.0 | | Tue Oct 02 12:35 | 00:00:15 | 813 | 48:44:87:57:60:FC | 48:44:87:57:60:FC |
| FZR 18 (Ch 11) | -83.0 | | Tue Oct 02 12:34 | 00:00:19 (Down) | 913 | 48:44:87:57:60:FC | 48:44:87:57:60:FC |
| FZR 18 (Ch 11) | -80.0 | | Tue Oct 02 12:34 | 00:00:37 (Down) | 813 | 48:44:87:57:60:FC | 48:44:87:57:60:FC |
| FZR 18 (Ch 11) | -83.0 | | Tue Oct 02 12:31 | 00:00:19 (Down) | 913 | 48:44:87:57:60:FC | 48:44:87:57:60:FC |
| NETGEAR (Ch 1) | -87.0 | | Tue Oct 02 12:34 | 00:01:05 (Down) | 13 | E0:91:F5:B9:FE:1B | E0:91:F5:B9:FE:1B |
| NETGEAR (Ch 1) | -86.0 | | Tue Oct 02 12:32 | 00:00:37 (Down) | 13 | E0:91:F5:B9:FE:1B | E0:91:F5:B9:FE:1B |
| NETGEAR (Ch 1) | -88.0 | | Tue Oct 02 12:32 | 00:00:19 (Down) | 13 | E0:91:F5:B9:FE:1B | E0:91:F5:B9:FE:1B |
| NETGEAR (Ch 1) | -91.0 | | Tue Oct 02 12:31 | 00:00:19 (Down) | 12 | E0:91:F5:B9:FE:1B | E0:91:F5:B9:FE:1B |
| NETGEAR (Ch 1) | -90.0 | | Tue Oct 02 12:30 | 00:00:19 (Down) | 12 | E0:91:F5:B9:FE:1B | E0:91:F5:B9:FE:1B |
| NETGEAR (Ch 1) | -90.0 | | Tue Oct 02 12:29 | 00:00:19 (Down) | 12 | E0:91:F5:B9:FE:1B | E0:91:F5:B9:FE:1B |
| NETGEAR (Ch 1) | -86.0 | | Tue Oct 02 12:27 | 00:01:34 (Down) | 13 | E0:91:F5:B9:FE:1B | E0:91:F5:B9:FE:1B |
| NETGEAR (Ch 1) | -61.0 | | Tue Oct 02 12:26 | 00:08:30 | 14 | 00:26:F2:4E:53:02 | 00:26:F2:4E:53:02 |
| PizzaTime (Ch 6) | -84.0 | | Tue Oct 02 12:35 | 00:00:19 (Down) | 48 | E0:46:9A:79:42:B2 | E0:46:9A:79:42:B2 |
| westell4012 (Ch 6) | -84.0 | | Tue Oct 02 12:35 | 00:00:00 | 48 | 74:44:01:B0:62:64 | 74:44:01:B0:62:64 |
| westell4921 (Ch 6) | -90.0 | | Tue Oct 02 12:30 | 00:00:19 (Down) | 57 | 74:44:01:AF:F7:DB | 74:44:01:AF:F7:DE |
| westell9916 (Ch 6) | -89.0 | | Tue Oct 02 12:35 | 00:00:00 | 57 | 0C:D5:02:7A:67:B7 | 0C:D5:02:7A:67:B7 |
| ZyXEL_188 (Ch 6) | -88.0 | | Tue Oct 02 12:35 | 00:00:00 | 48 | 40:4A:03:CB:51:88 | 40:4A:03:CB:51:88 |
| ZyXEL_188 (Ch 6) | -90.0 | | Tue Oct 02 12:30 | 00:00:19 (Down) | 57 | 40:4A:03:CB:51:88 | 40:4A:03:CB:51:88 |

3.8 Site – LCFR 27

| Device ' | Signal Strength (dBm) | Duty Cyde (%) "∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
|-------------------------------|-----------------------------|------------------------|------------------|------------------|----------------------|--------------------|------------------|
| ☐ Wi-Fi Ad Hocs [1] | (==) | (1-) | | | | | 20112020 |
| HP-nomodel.610A6D (Ch 6) | -89.0 | | Tue Oct 02 13:08 | 00:00:18 (Down) | 57 | 02:26:B6:A4:55:A3 | 02:26:B6:A4:55:A |
| ☐ Wi-Fi APs (In-Network) [37] | 05.0 | | 100 000 20100111 | concorac (coming | 5 | OZIZOIDOIN IIODINI | 0212010017110017 |
| billy (Ch 6) | -69.0 | | Tue Oct 02 13:05 | 00:03:45 | 39 | 00:1D:7E:50:79:FF | 00:1D:7E:50:79:F |
| billy (Ch 6) | -86.0 | | Tue Oct 02 13:02 | 00:00:38 (Down) | 48 | 00:1D:7E:50:79:FF | 00:1D:7E:50:79:F |
| Flo's Network (Ch 1) | -79.0 | | Tue Oct 02 13:05 | 00:04:03 (Down) | 12 | 00:11:24:00:FB:97 | 00:11:24:00:FB:9 |
| harley here anymore (Ch 1) | -84.0 | | Tue Oct 02 13:08 | 00:00:38 (Down) | 13 | 94:44:52:21:7A:D8 | 94:44:52:21:7A:D |
| harley here anymore (Ch 1) | -82.0 | | Tue Oct 02 13:07 | 00:00:47 (Down) | 14 | 94:44:52:21:7A:D8 | 94:44:52:21:7A:D |
| harley here anymore (Ch 1) | -89.0 | | Tue Oct 02 13:05 | 00:00:56 (Down) | 13 | 94:44:52:21:7A:D8 | 94:44:52:21:7A:D |
| linksys (Ch 6) | -74.0 | | Tue Oct 02 13:02 | 00:06:15 | 39 | 00:0C:41:F7:B5:94 | 00:0C:41:F7:B5:9 |
| NETGEAR (Ch 1) | -77.0 | | Tue Oct 02 13:08 | 00:00:19 (Down) | 14 | 30:46:9A:F9:90:70 | 30:46:9A:F9:90:7 |
| NETGEAR (Ch 1) | -88.0 | | Tue Oct 02 13:07 | 00:00:19 (Down) | 13 | 30:46:9A:F9:90:70 | 30:46:9A:F9:90:7 |
| NETGEAR (Ch 1) | -87.0 | | Tue Oct 02 13:06 | 00:00:37 (Down) | 13 | 30:46:9A:F9:90:70 | 30:46:9A:F9:90:7 |
| NETGEAR (Ch 1) | -86.0 | | Tue Oct 02 13:06 | 00:00:19 (Down) | 13 | 30:46:9A:F9:90:70 | 30:46:9A:F9:90: |
| NETGEAR (Ch 1) | -84.0 | | Tue Oct 02 13:05 | 00:00:38 (Down) | 13 | 30:46:9A:F9:90:70 | 30:46:9A:F9:90:7 |
| NewHope (Ch 1) | -81.0 | | Tue Oct 02 13:07 | 00:01:15 | 13 | 58:6D:8F:67:06:FB | 58:6D:8F:67:06:F |
| NewHope (Ch 1) | -82.0 | | Tue Oct 02 13:06 | 00:00:19 (Down) | 14 | 58:6D:8F:67:06:FB | 58:6D:8F:67:06: |
| NewHope (Ch 1) | -88.0 | | Tue Oct 02 13:05 | 00:00:38 (Down) | 13 | 58:6D:8F:67:06:FB | 58:6D:8F:67:06: |
| NewHope (Ch 1) | -89.0 | | Tue Oct 02 13:04 | 00:00:56 (Down) | 12 | 58:6D:8F:67:06:FB | 58:6D:8F:67:06: |
| NewHope (Ch 1) | -76.0 | | Tue Oct 02 13:02 | 00:02:01 (Down) | 14 | 58:6D:8F:67:06:FB | 58:6D:8F:67:06:6 |
| NewHope-guest (Ch 1) | -83.0 | | Tue Oct 02 13:07 | 00:01:15 | 13 | 58:6D:8F:67:06:FD | 58:6D:8F:67:06:f |
| NewHope-guest (Ch 1) | -84.0 | | Tue Oct 02 13:05 | 00:00:19 (Down) | 13 | 58:6D:8F:67:06:FD | 58:6D:8F:67:06: |
| NewHope-guest (Ch 1) | -80.0 | | Tue Oct 02 13:05 | 00:00:19 (Down) | 14 | 58:6D:8F:67:06:FD | 58:6D:8F:67:06:f |
| NewHope-guest (Ch 1) | -86.0 | | Tue Oct 02 13:04 | 00:00:28 (Down) | 13 | 58:6D:8F:67:06:FD | 58:6D:8F:67:06: |
| NewHope-guest (Ch 1) | -75.0 | | Tue Oct 02 13:02 | 00:02:01 (Down) | 14 | 58:6D:8F:67:06:FD | 58:6D:8F:67:06:6 |
| TasGlass (Ch 1) | -86.0 | | Tue Oct 02 13:08 | 00:00:19 (Down) | 13 | 68:7F:74:BE:12:F9 | 68:7F:74:BE:12:f |
| TasGlass (Ch 1) | -91.0 | | Tue Oct 02 13:06 | 00:00:38 (Down) | 12 | 68:7F:74:BE:12:F9 | 68:7F:74:BE:12:F |
| TasGlass (Ch 1) | -86.0 | | Tue Oct 02 13:05 | 00:00:19 (Down) | 13 | 68:7F:74:BE:12:F9 | 68:7F:74:BE:12:F |
| Verizon MIFI4510L CD69 Se | -89.0 | | Tue Oct 02 13:04 | 00:00:19 (Down) | 12 | 00:15:FF:24:CD:69 | 00:15:FF:24:CD: |
| westell3849 (Ch 6) | -86.0 | | Tue Oct 02 13:06 | 00:00:19 (Down) | 48 | 0C:D5:02:62:F1:66 | 0C:D5:02:62:F1: |
| westell3849 (Ch 6) | -87.0 | | Tue Oct 02 13:06 | 00:00:18 (Down) | 48 | 0C:D5:02:62:F1:66 | 0C:D5:02:62:F1: |
| westell5100 (Ch 6) | -82.0 | | Tue Oct 02 13:08 | 00:00:19 (Down) | 39 | 74:44:01:AB:E9:9F | 74:44:01:AB:E9: |
| westell5100 (Ch 6) | -82.0 | | Tue Oct 02 13:06 | 00:00:28 (Down) | 39 | 74:44:01:AB:E9:9F | 74:44:01:AB:E9: |
| westell5100 (Ch 6) | -88.0 | | Tue Oct 02 13:06 | 00:00:19 (Down) | 48 | 74:44:01:AB:E9:9F | 74:44:01:AB:E9: |
| westell5100 (Ch 6) | -87.0 | | Tue Oct 02 13:05 | 00:01:05 (Down) | 48 | 74:44:01:AB:E9:9F | 74:44:01:AB:E9: |
| westell5100 (Ch 6) | -84.0 | | Tue Oct 02 13:02 | 00:00:38 (Down) | 48 | 74:44:01:AB:E9:9F | 74:44:01:AB:E9: |
| westell8875 (Ch 6) | -86.0 | | Tue Oct 02 13:08 | 00:00:45 | 48 | 74:44:01:AC:15:DC | 74:44:01:AC:15: |
| westell8875 (Ch 6) | -84.0 | | Tue Oct 02 13:07 | 00:00:19 (Down) | 48 | 74:44:01:AC:15:DC | 74:44:01:AC:15: |
| westell8875 (Ch 6) | -83.0 | | Tue Oct 02 13:03 | 00:01:52 (Down) | 48 | 74:44:01:AC:15:DC | 74:44:01:AC:15: |
| westell8875 (Ch 6) | -91.0 | | Tue Oct 02 13:02 | 00:00:19 (Down) | 57 | 74:44:01:AC:15:DC | 74:44:01:AC:15: |

3.9 Site – LCFR 39

| Device' | Signal Strength (dBm) | Duty Cycle (%) *▽ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
|-------------------------------|-----------------------------|-------------------------|-----------------|-----------------|----------------------|-------------------|------------------|
| □ Bluetooth [4] | | | | | | | |
| Bluetooth Paging/Inquiry De | -68.8 | | Wed Oct 10 12:5 | 00:05:51 (Down) | N/A | 28:43:31 | |
| □ Piconet 1 [1] | | | | , | | | |
| Device 1 | -91.5 | 3 | Wed Oct 10 12:5 | 00:00:50 (Down) | 113 | DD:57:7C | |
| □ Piconet 2 [1] | | | | , , | | | |
| Device 1 | -91.3 | 17 | Wed Oct 10 12:5 | 00:03:18 (Down) | 58 | EB:7B:9A | |
| □ Piconet 3 [1] | | | | , , | | | |
| Device 1 | -89.9 | 9 | Wed Oct 10 13:0 | 00:00:19 (Down) | 113 | EB:7B:9A | |
| □ Wi-Fi APs (In-Network) [32] | | | | | | | |
| Cisco2492 (Ch 6) | -78.0 | | Wed Oct 10 13:0 | 00:00:15 | 39 | BC:C8:10:A8:32:40 | BC:C8:10:A8:32:4 |
| Cisco 2492 (Ch 6) | -79.0 | | Wed Oct 10 13:0 | 00:00:46 (Down) | 39 | BC:C8:10:A8:32:40 | BC:C8:10:A8:32:4 |
| Cisco2492 (Ch 6) | -87.0 | | Wed Oct 10 13:0 | 00:00:19 (Down) | 48 | BC:C8:10:A8:32:40 | BC:C8:10:A8:32:4 |
| Cisco2492 (Ch 6) | -70.0 | | Wed Oct 10 12:5 | 00:00:19 (Down) | 39 | BC:C8:10:A8:32:40 | BC:C8:10:A8:32:4 |
| Cisco6369 (Ch 1) | -89.0 | | Wed Oct 10 12:5 | 00:00:19 (Down) | 12 | A4:A2:4A:7D:1D | A4:A2:4A:7D:1D |
| Cisco7713 (Ch 6) | -84.0 | | Wed Oct 10 13:0 | 00:00:18 (Down) | 48 | A4:A2:4A:7F:77:3C | A4:A2:4A:7F:77:3 |
| Cisco7713 (Ch 6) | -83.0 | | Wed Oct 10 13:0 | 00:00:37 (Down) | 48 | A4:A2:4A:7F:77:3C | A4:A2:4A:7F:77:3 |
| Cisco7713 (Ch 6) | -73.0 | | Wed Oct 10 12:5 | 00:00:19 (Down) | 39 | A4:A2:4A:7F:77:3C | A4:A2:4A:7F:77:3 |
| Cisco7802 (Ch 1) | -91.0 | | Wed Oct 10 12:5 | 00:00:19 (Down) | 12 | A4:A2:4A:7F:83:52 | A4:A2:4A:7F:83:5 |
| Cool cuts (Ch 1) | -83.0 | | Wed Oct 10 13:0 | 00:00:47 (Down) | 13 | E0:91:F5:A2:0B:08 | E0:91:F5:A2:0B:0 |
| Cool cuts (Ch 1) | -89.0 | | Wed Oct 10 12:5 | 00:00:19 (Down) | 12 | E0:91:F5:A2:0B:08 | E0:91:F5:A2:0B:0 |
| Cool cuts (Ch 1) | -87.0 | | Wed Oct 10 12:5 | 00:00:18 (Down) | 13 | E0:91:F5:A2:0B:08 | E0:91:F5:A2:0B:0 |
| Cool cuts (Ch 1) | -88.0 | | Wed Oct 10 12:5 | 00:00:18 (Down) | 13 | E0:91:F5:A2:0B:08 | E0:91:F5:A2:0B:0 |
| gandy (Ch 1) | -87.0 | | Wed Oct 10 12:5 | 00:00:19 (Down) | 13 | 84:C9:B2:61:08:0E | 84:C9:B2:61:08:0 |
| gandy (Ch 1) | -78.0 | | Wed Oct 10 12:5 | 00:00:29 (Down) | 14 | 84:C9:B2:61:08:0E | 84:C9:B2:61:08:0 |
| gandy (Ch 1) | -88.0 | | Wed Oct 10 12:5 | 00:00:47 (Down) | 13 | 84:C9:B2:61:08:0E | 84:C9:B2:61:08:0 |
| hegstrom (Ch 4) | -77.0 | | Wed Oct 10 13:0 | 00:01:15 | 17 | 00:18:F8:C4:81:BB | 00:18:F8:C4:81:B |
| HOME-B1A2 (Ch 11) | -89.0 | | Wed Oct 10 13:0 | 00:00:00 | 1012 | 00:1D:D4:59:B1:A0 | 00:1D:D4:59:B1:A |
| HOME-B1A2 (Ch 11) | -88.0 | | Wed Oct 10 12:5 | 00:00:18 (Down) | 913 | 00:1D:D4:59:B1:A0 | 00:1D:D4:59:B1:A |
| Janego Construction (Ch 1) | -76.0 | | Wed Oct 10 13:0 | 00:03:00 | 12 | 00:22:6B:93:C8:EE | 00:22:6B:93:C8:E |
| Janego Construction (Ch 1) | -86.0 | | Wed Oct 10 12:5 | 00:00:19 (Down) | 13 | 00:22:6B:93:C8:EE | 00:22:6B:93:C8:E |
| Janego Construction (Ch 1) | -79.0 | | Wed Oct 10 12:5 | 00:02:39 (Down) | 14 | 00:22:6B:93:C8:EE | 00:22:6B:93:C8:E |
| MPL Remote (Ch 5) | -88.0 | | Wed Oct 10 12:5 | 00:00:19 (Down) | 37 | CC:5D:4E:31:A0: | CC:5D:4E:31:A0:. |
| syoung (Ch 1) | -87.0 | | Wed Oct 10 13:0 | 00:01:05 (Down) | 13 | 58:6D:8F:E2:8A:93 | 58:6D:8F:E2:8A:9 |
| syoung (Ch 1) | -82.0 | | Wed Oct 10 12:5 | 00:01:05 (Down) | 14 | 58:6D:8F:E2:8A:93 | 58:6D:8F:E2:8A:9 |
| syoung (Ch 1) | -84.0 | | Wed Oct 10 12:5 | 00:00:19 (Down) | 13 | 58:6D:8F:E2:8A:93 | 58:6D:8F:E2:8A:9 |
| syoung (Ch 1) | -82.0 | | Wed Oct 10 12:5 | 00:00:19 (Down) | 14 | 58:6D:8F:E2:8A:93 | 58:6D:8F:E2:8A:9 |
| syoung-guest (Ch 1) | -87.0 | | Wed Oct 10 13:0 | 00:00:19 (Down) | 13 | 58:6D:8F:E2:8A:94 | 58:6D:8F:E2:8A:9 |
| syoung-guest (Ch 1) | -80.0 | | Wed Oct 10 13:0 | 00:00:28 (Down) | 14 | 58:6D:8F:E2:8A:94 | 58:6D:8F:E2:8A:9 |
| syoung-guest (Ch 1) | -82.0 | | Wed Oct 10 12:5 | 00:00:28 (Down) | 14 | 58:6D:8F:E2:8A:94 | 58:6D:8F:E2:8A:9 |
| syoung-guest (Ch 1) | -84.0 | | Wed Oct 10 12:5 | 00:00:38 (Down) | 13 | 58:6D:8F:E2:8A:94 | 58:6D:8F:E2:8A:9 |
| syoung-guest (Ch 1) | -82.0 | | Wed Oct 10 12:5 | 00:00:19 (Down) | 14 | 58:6D:8F:E2:8A:94 | 58:6D:8F:E2:8A:9 |

3.10 Site – LCFR 52

| Device ' | Signal Strength (dBm) | Duty Cyde (%) "∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
|-------------------------------|-----------------------------|------------------------|--------------------|-----------------|----------------------|---------------------|-------------------|
| ☐ Bluetooth [3] | (dbiii) | (70) | Discovery Time | Off fillic | Arrected | IVELWORK ID | Device ID |
| Bluetooth Paging/Inquiry De | -74.1 | | Wed Oct 10 15:2 | 00:02:25 (Down) | N/A | 28:43:31 | |
| ☐ Piconet 1 [1] | 7112 | | WCG OCT 10 15.2 | 00.02.23 (DOWN) | IV/A | 20. 15.51 | |
| Device 1 | -65.8 | 4 | Wed Oct 10 15:2 | 00:00:07 (Down) | 114 | DD:57:7C | |
| ☐ Piconet 2 [1] | 0010 | <u> </u> | Wed oct 10 ISIEM | colocies (comi) | 21121 | 55157176 | |
| Device 1 | -92.6 | 3 | Wed Oct 10 15:2 | 00:00:50 (Down) | 58 | DD:57:7C | |
| □ Wi-Fi Ad Hocs [6] | 32.10 | | Wed Oct 10 1512III | concorde (Down) | 5110 | 55157176 | |
| hpsetup (Ch 6) | -88.0 | | Wed Oct 10 15:2 | 00:00:19 (Down) | 48 | 32:C1:DE:D2:AF:96 | 32:C1:DE:D2:AF: |
| Loryborts iPhone (Ch 6) | -88.0 | | Wed Oct 10 15:2 | 00:00:19 (Down) | 48 | 02:28:E8:02:D6:01 | 02:28:E8:02:D6:0 |
| SETUP (Ch 11) | -86.0 | | Wed Oct 10 15:2 | 00:01:30 | 1012 | 5E:92:0F:DA:C0:97 | 5E:92:0F:DA:C0:9 |
| SETUP (Ch 11) | -88.0 | | Wed Oct 10 15:2 | 00:00:38 (Down) | 913 | 5E:92:0F:DA:C0:97 | 5E:92:0F:DA:C0: |
| SETUP (Ch 11) | -89.0 | | Wed Oct 10 15:2 | 00:00:28 (Down) | 1012 | 5E:92:0F:DA:C0:97 | 5E:92:0F:DA:C0: |
| SETUP (Ch 11) | -87.0 | | Wed Oct 10 15:2 | 00:00:19 (Down) | 913 | 5E:92:0F:DA:C0:97 | 5E:92:0F:DA:C0: |
| □ Wi-Fi APs (In-Network) [26] | 0710 | | Wed det 10 Idiziii | colocits (comi) | 51125 | SEISEIGI IBAIICOISA | SEISEIGI IBANCOI. |
| 2WIRE854 (Ch 2) | -83.0 | | Wed Oct 10 15:2 | 00:01:05 (Down) | 14 | 00:1B:5B:1D:96:89 | 00:1B:5B:1D:96:8 |
| 2WIRE854 (Ch 2) | -76.0 | | Wed Oct 10 15:2 | 00:00:28 (Down) | 15 | 00:1B:5B:1D:96:89 | 00:1B:5B:1D:96:8 |
| CenturyLink4854 (Ch 6) | -84.0 | | Wed Oct 10 15:2 | 00:00:45 | 39 | B2:B2:DC:82:68:C8 | B2:B2:DC:82:68:0 |
| CenturyLink4854 (Ch 6) | -82.0 | | Wed Oct 10 15:2 | 00:00:19 (Down) | 39 | B2:B2:DC:82:68:C8 | B2:B2:DC:82:68:0 |
| default (Ch 6) | -76.0 | | Wed Oct 10 15:2 | 00:02:45 | 48 | 20:CF:30:C7:44:42 | 20:CF:30:C7:44:4 |
| default (Ch 6) | -75.0 | | Wed Oct 10 15:2 | 00:00:19 (Down) | 39 | 20:CF:30:C7:44:42 | 20:CF:30:C7:44:4 |
| default (Ch 6) | -86.0 | | Wed Oct 10 15:2 | 00:00:38 (Down) | 48 | 20:CF:30:C7:44:42 | 20:CF:30:C7:44:4 |
| FLPNR Lady Lake (Ch 11) | -70.0 | | Wed Oct 10 15:2 | 00:05:30 | 813 | 08:86:3B:D4:E1:FC | 08:86:3B:D4:E1:F |
| Medic (Ch 1) | -85.0 | | Wed Oct 10 15:3 | 00:00:00 | 13 | 00:80:48:69:4F:01 | 00:80:48:69:4F:0 |
| Medic (Ch 1) | -88.0 | | Wed Oct 10 15:2 | 00:00:19 (Down) | 13 | 00:80:48:69:4F:01 | 00:80:48:69:4F:0 |
| Medic (Ch 1) | -70.0 | | Wed Oct 10 15:2 | 00:01:43 (Down) | 14 | 00:80:48:69:4F:01 | 00:80:48:69:4F:0 |
| Medic (Ch 1) | -72.0 | | Wed Oct 10 15:2 | 00:00:56 (Down) | 14 | 00:80:48:69:4F:01 | 00:80:48:69:4F:0 |
| Station (Ch 11) | -81.0 | | Wed Oct 10 15:3 | 00:00:15 | 813 | 00:22:3F:4E:74:88 | 00:22:3F:4E:74:8 |
| Station (Ch 11) | -77.0 | | Wed Oct 10 15:2 | | 813 | 00:22:3F:4E:74:88 | 00:22:3F:4E:74:8 |
| WATOAKIDF01W (Ch 1) | -70.0 | | Wed Oct 10 15:2 | 00:00:28 (Down) | 14 | 00:0D:67:0F:2C:CD | 00:0D:67:0F:2C:0 |
| WATOAKIDF01W (Ch 1) | -87.0 | | Wed Oct 10 15:2 | | 13 | 00:0D:67:0F:2C:CD | 00:0D:67:0F:2C:0 |
| WATOAKIDF01W (Ch 1) | -76.0 | | Wed Oct 10 15:2 | 00:00:37 (Down) | 13 | 00:0D:67:0F:2C:CD | 00:0D:67:0F:2C:0 |
| WATOAKIDF04W (Ch 6) | -83.0 | | Wed Oct 10 15:2 | 00:00:19 (Down) | 48 | 00:0D:67:0F:2A:72 | 00:0D:67:0F:2A: |
| WATOAKIDF04W (Ch 6) | -74.0 | | Wed Oct 10 15:2 | | 39 | 00:0D:67:0F:2A:72 | 00:0D:67:0F:2A: |
| WATOAKIDF06W (Ch 1) | -90.0 | | Wed Oct 10 15:2 | 00:00:19 (Down) | 12 | 00:0D:67:0F:4D:40 | 00:0D:67:0F:4D:4 |
| WATOAKIDF09W (Ch 11) | -88.0 | | Wed Oct 10 15:2 | 00:00:30 | 1012 | 00:0D:67:0F:51:ED | 00:0D:67:0F:51:E |
| westell6945 (Ch 6) | -83.0 | | Wed Oct 10 15:2 | 00:00:37 (Down) | 48 | 74:44:01:A7:E8:F8 | 74:44:01:A7:E8:F |
| westell6945 (Ch 6) | -77.0 | | Wed Oct 10 15:2 | 00:00:47 (Down) | 39 | 74:44:01:A7:E8:F8 | 74:44:01:A7:E8:F |
| ZyXEL_87F (Ch 6) | -89.0 | | Wed Oct 10 15:2 | | 57 | 00:23:F8:B3:18:7F | 00:23:F8:B3:18:7 |
| ZyXEL 87F (Ch 6) | -89.0 | | Wed Oct 10 15:2 | 00:00:19 (Down) | 57 | 00:23:F8:B3:18:7F | 00:23:F8:B3:18:7 |
| ZyXEL B65 (Ch 6) | -80.0 | | Wed Oct 10 15:2 | 00:05:15 | 48 | 00:23:F8:C7:1B:65 | 00:23:F8:C7:1B:6 |

3.11 Site – LCFR 53

| Device ' | Signal Strength (dBm) | Duty Cyde (%) "∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
|-------------------------------|-----------------------------|------------------------|-----------------|----------|----------------------|-------------------|-------------------|
| □ Wi-Fi APs (In-Network) [14] | | | | | | | |
| 24GHz (Ch 11) | -87.0 | | Wed Oct 03 10:3 | 00:00:30 | 913 | C4:3D:C7:47:E7:24 | C4:3D:C7:47:E7:2 |
| belkin.860 (Ch 1) | -76.0 | | Wed Oct 03 10:3 | 00:04:30 | 14 | 08:86:3B:BD:38:60 | 08:86:3B:BD:38:60 |
| belkin.860.guests (Ch 1) | -75.0 | | Wed Oct 03 10:3 | 00:03:15 | 14 | 0A:86:3B:BD:38:61 | 0A:86:3B:BD:38:6 |
| belkin.ecc (Ch 6) | -85.0 | | Wed Oct 03 10:3 | 00:00:00 | 48 | 08:86:3B:9B:EE:CC | 08:86:3B:9B:EE:C |
| belkin54g (Ch 1) | -82.0 | | Wed Oct 03 10:3 | 00:00:30 | 14 | 00:1C:DF:FC:18:E2 | 00:1C:DF:FC:18:E |
| Belkin_979631 (Ch 11) | -86.0 | | Wed Oct 03 10:3 | 00:00:00 | 913 | 08:86:3B:97:96:31 | 08:86:3B:97:96:3 |
| BrownEagle (Ch 11) | -76.0 | | Wed Oct 03 10:3 | 00:00:00 | 813 | 98:FC:11:86:7A:B9 | 98:FC:11:86:7A:B |
| BrownEagle-guest (Ch 11) | -81.0 | | Wed Oct 03 10:3 | 00:00:30 | 913 | 98:FC:11:86:7A:BB | 98:FC:11:86:7A:E |
| HOME-1E42 (Ch 6) | -81.0 | | Wed Oct 03 10:3 | 00:02:00 | 39 | 00:1D:D0:6A:1E:40 | 00:1D:D0:6A:1E:4 |
| linksys (Ch 9) | -90.0 | | Wed Oct 03 10:3 | 00:00:00 | 810 | 00:1D:7E:2D:26:9A | 00:1D:7E:2D:26:9 |
| NETGEAR08 (Ch 2) | -88.0 | | Wed Oct 03 10:3 | 00:00:00 | 14 | 4C:60:DE:D4:7D:7F | 4C:60:DE:D4:7D: |
| not-4-you (Ch 2) | -72.0 | | Wed Oct 03 10:3 | 00:02:45 | 15 | 00:24:B2:5E:BB:43 | 00:24:B2:5E:BB:4 |
| RaneeEMS (Ch 11) | -73.0 | | Wed Oct 03 10:3 | 00:02:30 | 813 | 20:AA:4B:3E:15:A0 | 20:AA:4B:3E:15:A |
| Verizon MIFI4510L 7670 Sec | -67.0 | | Wed Oct 03 10:3 | 00:01:45 | 15 | 00:15:FF:23:76:70 | 00:15:FF:23:76:7 |

3.12 Site – LCFR 54

| | Signal | Duty | | | 1 | | |
|-------------------------------|-------------------|-----------------|------------------|----------|----------------------|-------------------|-------------------|
| Device ' | Strength (dBm) | Cycle (%) "∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
| ☐ Wi-Fi APs (In-Network) [12] | | | | | | | |
| (00:26:F3:5C:5B:48) (Ch 1) | -87.0 | | Thu Sep 27 15:03 | 00:00:15 | 13 | 00:26:F3:5C:5B:48 | 00:26:F3:5C:5B:48 |
| (00:26:F3:5C:5B:49) (Ch 1) | -89.0 | | Thu Sep 27 15:03 | 00:00:00 | 12 | 00:26:F3:5C:5B:49 | 00:26:F3:5C:5B:49 |
| (00:26:F3:5C:5B:4A) (Ch 1) | -87.0 | | Thu Sep 27 15:03 | 00:00:00 | 13 | 00:26:F3:5C:5B:4A | 00:26:F3:5C:5B:4A |
| (00:26:F3:5C:5B:4B) (Ch 1) | -89.0 | | Thu Sep 27 15:03 | 00:00:00 | 12 | 00:26:F3:5C:5B:4B | 00:26:F3:5C:5B:4B |
| (C2:3F:0E:B5:24:53) (Ch 11) | -78.0 | | Thu Sep 27 15:03 | 00:00:00 | 813 | C2:3F:0E:B5:24:53 | C2:3F:0E:B5:24:53 |
| Brecht-NET (Ch 1) | -86.0 | | Thu Sep 27 15:02 | 00:00:45 | 12 | 00:19:9D:4E:EA:91 | 00:19:9D:4E:EA:91 |
| dlink_6223 (Ch 7) | -87.0 | | Thu Sep 27 15:03 | 00:00:00 | 59 | 00:21:91:E9:30:1D | 00:21:91:E9:30:1D |
| MiFi4620L Jetpack BBF3 Sec | -55.0 | | Thu Sep 27 14:55 | 00:08:00 | 15 | 00:15:FF:1C:BB:F3 | 00:15:FF:1C:BB:F3 |
| Nelson (Ch 5) | -84.0 | | Thu Sep 27 15:03 | 00:00:00 | 37 | 00:22:3F:A6:B7:EF | 00:22:3F:A6:B7:EF |
| NETGEAR (Ch 11) | -87.0 | | Thu Sep 27 15:01 | 00:01:45 | 1012 | 00:18:4D:54:69:1C | 00:18:4D:54:69:1C |
| ParkinNet (Ch 11) | -87.0 | | Thu Sep 27 15:02 | 00:00:45 | 913 | C0:3F:0E:B5:24:52 | C0:3F:0E:B5:24:52 |
| SS2010 (Ch 11) | -87.0 | | Thu Sep 27 15:02 | 00:00:30 | 913 | C0:3F:0E:48:01:84 | C0:3F:0E:48:01:84 |

3.13 Site – LCFR 59

| Device' / | Signal Strength (dBm) | Duty Cyde (%) "∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
|-------------------------------|-----------------------------|------------------------|-----------------|----------|----------------------|-------------------|-------------------|
| □ Wi-Fi APs (In-Network) [18] | | | | | | | |
| (00:1D:7E:5A:4B:8E) (Ch 9) | -73.0 | | Wed Oct 03 09:5 | 00:00:15 | 612 | 00:1D:7E:5A:4B:8E | 00:1D:7E:5A:4B:88 |
| Barking Dog 1 (Ch 11) | -81.0 | | Wed Oct 03 09:5 | 00:00:00 | 813 | 2C:B0:5D:32:34:08 | 2C:B0:5D:32:34:0 |
| Barking Dog Guest (Ch 11) | -82.0 | | Wed Oct 03 09:5 | 00:00:00 | 813 | 2E:B0:5D:32:34:09 | 2E:B0:5D:32:34:0 |
| BHNDVW3201B0CBC (Ch 1) | -83.0 | | Wed Oct 03 09:4 | 00:02:45 | 13 | E4:D5:3D:86:81:94 | E4:D5:3D:86:81:9 |
| BHNFACH (Ch 11) | -90.0 | | Wed Oct 03 09:5 | 00:00:15 | 1012 | F0:7B:CB:05:AB:2F | F0:7B:CB:05:AB:2 |
| david 2008 (Ch 9) | -85.0 | | Wed Oct 03 09:4 | 00:02:15 | 711 | 00:1E:E5:26:44:39 | 00:1E:E5:26:44:3 |
| dlink (Ch 1) | -88.0 | | Wed Oct 03 09:5 | 00:00:00 | 13 | 00:17:9A:4A:4A:A5 | 00:17:9A:4A:4A: |
| dlink (Ch 1) | -89.0 | | Wed Oct 03 09:5 | 00:00:30 | 12 | 00:11:95:40:9C:A7 | 00:11:95:40:9C:A |
| gabby (Ch 6) | -72.0 | | Wed Oct 03 09:5 | 00:00:30 | 39 | 00:1A:70:6B:9F:B5 | 00:1A:70:6B:9F:B |
| jag 1212 (Ch 11) | -80.0 | | Wed Oct 03 09:5 | 00:00:15 | 813 | 4C:0F:6E:8D:5B:FA | 4C:0F:6E:8D:5B:F |
| jerry's Wi-Fi Network (Ch 11) | -91.0 | | Wed Oct 03 09:5 | 00:00:00 | 1012 | 00:21:E9:B8:E5:FA | 00:21:E9:B8:E5:F |
| linksys (Ch 6) | -77.0 | | Wed Oct 03 09:5 | 00:00:00 | 39 | C0:C1:C0:A0:39:4E | C0:C1:C0:A0:39: |
| linksys (Ch 6) | -75.0 | | Wed Oct 03 09:5 | 00:00:15 | 39 | 68:7F:74:71:60:01 | 68:7F:74:71:60:0 |
| OnyxShark-guest (Ch 6) | -86.0 | | Wed Oct 03 09:4 | 00:02:30 | 39 | 68:7F:74:B2:CF:E7 | 68:7F:74:B2:CF:E |
| Station (Ch 11) | -80.0 | | Wed Oct 03 09:5 | 00:01:00 | 813 | 00:22:3F:4E:74:44 | 00:22:3F:4E:74:4 |
| WhiteMoose (Ch 1) | -79.0 | | Wed Oct 03 09:4 | 00:03:45 | 13 | 20:AA:4B:04:83:B2 | 20:AA:4B:04:83:E |
| WhiteMoose-guest (Ch 1) | -83.0 | | Wed Oct 03 09:4 | 00:03:00 | 12 | 20:AA:4B:04:83:B4 | 20:AA:4B:04:83:E |
| Yogibear (Ch 11) | -91.0 | | Wed Oct 03 09:5 | 00:00:00 | 1012 | 98:FC:11:54:77:04 | 98:FC:11:54:77:0 |

3.14 Site – LCFR 70

| Device' / | Signal Strength (dBm) | Duty Cyde (%) "∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
|-------------------------------|-----------------------------|------------------------|------------------|----------|----------------------|-------------------|-------------------|
| ☐ Wi-Fi APs (In-Network) [16] | | | | | | | |
| (00:0B:85:5A:76:2F) (Ch 1) | -71.0 | | Thu Sep 27 09:44 | 00:00:30 | 14 | 00:0B:85:5A:76:2F | 00:0B:85:5A:76:2F |
| belkin.59b (Ch 11) | -74.0 | | Thu Sep 27 09:40 | 00:05:15 | 913 | 08:86:3B:73:15:9B | 08:86:3B:73:15:9B |
| belkin.59b.5GHz (Ch 149) | -85.0 | | Thu Sep 27 09:44 | 00:01:00 | 149 | 08:86:3B:73:15:9D | 08:86:3B:73:15:9D |
| Cisco 5454 (Ch 11) | -84.0 | | Thu Sep 27 09:45 | 00:00:15 | 913 | 44:58:29:7A:EA:98 | 44:58:29:7A:EA:98 |
| Cisco 5604 (Ch 1) | -72.0 | | Thu Sep 27 09:44 | 00:00:45 | 14 | BC:C8:10:AB:F6:E2 | BC:C8:10:AB:F6:E2 |
| Cisco6758 (Ch 11) | -86.0 | | Thu Sep 27 09:45 | 00:00:00 | 913 | 00:02:6F:69:39:D4 | 00:02:6F:69:39:D4 |
| Cisco 7169 (Ch 9) | -82.0 | | Thu Sep 27 09:45 | 00:00:15 | 612 | A4:A2:4A:78:FA: | A4:A2:4A:78:FA: |
| Internet (Ch 6) | -78.0 | | Thu Sep 27 09:44 | 00:00:45 | 39 | CA:3D:C7:A3:AA | CA:3D:C7:A3:AA |
| InternetKids (Ch 6) | -78.0 | | Thu Sep 27 09:44 | 00:00:45 | 39 | CE:3D:C7:A3:AA | CE:3D:C7:A3:AA |
| Luca Maasen (Ch 1) | -85.0 | | Thu Sep 27 09:45 | 00:00:00 | 13 | 00:24:01:6C:D8:A9 | 00:24:01:6C:D8:A9 |
| Mitchell (Ch 11) | -87.0 | | Thu Sep 27 09:45 | 00:00:00 | 913 | 20:AA:4B:76:AD:84 | 20:AA:4B:76:AD:84 |
| NETGEAR86 (Ch 2) | -86.0 | | Thu Sep 27 09:45 | 00:00:15 | 14 | 74:44:01:79:FE:1C | 74:44:01:79:FE:1C |
| WELCOME (Ch 1) | -67.0 | | Thu Sep 27 09:37 | 00:08:00 | 14 | 00:0B:85:5A:76:2E | 00:0B:85:5A:76:2E |
| westell7234 (Ch 6) | -87.0 | | Thu Sep 27 09:45 | 00:00:00 | 48 | E0:46:9A:EA:E4:6D | E0:46:9A:EA:E4:6D |
| westell7870 (Ch 6) | -82.0 | | Thu Sep 27 09:44 | 00:00:30 | 39 | E0:46:9A:CF:02:9D | E0:46:9A:CF:02:9D |
| WLCBCC (Ch 1) | -77.0 | | Thu Sep 27 09:37 | 00:08:00 | 14 | 00:0B:85:5A:76:2A | 00:0B:85:5A:76:2A |

| 5 GH: | z interference |
|-----------------|----------------|
| Device | Channel |
| Belkin.59b.5GHz | 149 |

3.15 Site – LCFR 71

| Devices: Currently Active, All Cha | nnels | | | | | | |
|------------------------------------|-----------------------------|-----------------------------|------------------|----------|----------------------|-------------------|-------------------|
| Device ' | Signal Strength (dBm) | Duty Cycle (%) * \tau | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
| ☐ Cordless Phones [1] | | | | | | | |
| DECT-Like Base Station 2 | -88.4 | 1 | Thu Sep 27 11:38 | 00:00:45 | 1 | 6D:00:49:26:15 | |
| ☐ Wi-Fi APs (In-Network) [3] | | | | | | | |
| Cisco4135 (Ch 1) | -68.0 | | Thu Sep 27 11:37 | 00:01:15 | 14 | 44:58:29:75:7E:AE | 44:58:29:75:7E:AE |
| NETGEAR (Ch 1) | -77.0 | | Thu Sep 27 11:31 | 00:07:00 | 14 | 00:26:F2:73:6C:B8 | 00:26:F2:73:6C:B8 |
| NoFreeNetForU (Ch 6) | -79.0 | | Thu Sep 27 11:37 | 00:01:15 | 39 | 2C:B0:5D:1E:FE:28 | 2C:B0:5D:1E:FE:28 |

3.16 Site – LCFR 72

| Device ' | Signal Strength (dBm) | Duty Cyde (%) *∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
|-------------------------------|-----------------------------|------------------------|------------------|----------|----------------------|-------------------|-------------------|
| □ Wi-Fi APs (In-Network) [12] | | | | | | | |
| (00:60:B3:2F:11:21) (Ch 1) | -87.0 | | Thu Sep 27 13:05 | 00:00:00 | 13 | 00:60:B3:2F:11:21 | 00:60:B3:2F:11:21 |
| Adriana (Ch 6) | -81.0 | | Thu Sep 27 13:04 | 00:01:15 | 48 | 00:23:69:F6:77:D4 | 00:23:69:F6:77:D4 |
| belkin.b5a (Ch 11) | -90.0 | | Thu Sep 27 13:05 | 00:00:00 | 1012 | 08:86:3B:AE:AB:5A | 08:86:3B:AE:AB:5A |
| CenturylinkRLS (Ch 6) | -77.0 | | Thu Sep 27 13:01 | 00:04:00 | 39 | 74:44:01:A5:1C:14 | 74:44:01:A5:1C:14 |
| Cisco7285 (Ch 1) | -84.0 | | Thu Sep 27 13:04 | 00:00:15 | 13 | A4:A2:4A:7B:6C:70 | A4:A2:4A:7B:6C:7 |
| Cisco8042 (Ch 11) | -83.0 | | Thu Sep 27 13:05 | 00:00:15 | 913 | 44:58:29:74:A1:5C | 44:58:29:74:A1:50 |
| lelamery (Ch 1) | -88.0 | | Thu Sep 27 13:05 | 00:00:00 | 13 | 00:26:F2:9C:37:78 | 00:26:F2:9C:37:78 |
| Linksys (Ch 1) | -81.0 | | Thu Sep 27 13:01 | 00:03:30 | 13 | 00:1C:10:54:B0:62 | 00:1C:10:54:B0:62 |
| MiFi4620L Jetpack BBF3 Sec | -64.0 | | Thu Sep 27 12:55 | 00:09:45 | 15 | 00:15:FF:1C:BB:F3 | 00:15:FF:1C:BB:F3 |
| THENETWORK (Ch 5) | -77.0 | | Thu Sep 27 13:05 | 00:00:15 | 37 | 1C:AF:F7:DC:87:6B | 1C:AF:F7:DC:87:6 |
| westell4557 (Ch 6) | -74.0 | | Thu Sep 27 13:05 | 00:00:00 | 39 | 0C:D5:02:78:61:10 | 0C:D5:02:78:61:10 |
| westell9632 (Ch 6) | -89.0 | | Thu Sep 27 13:05 | 00:00:00 | 57 | 0C:D5:02:0E:A4:72 | 0C:D5:02:0E:A4:72 |

3.17 Site – LCFR 76

| Device ' | Signal Strength (dBm) | Duty Cyde (%) "∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
|------------------------------|-----------------------------|------------------------|------------------|-----------------|----------------------|-------------------|-------------------|
| ☐ Generic - Continuous [2] | | | | | | | |
| Device (CW) @ 5640.00 MHz | -86.0 | 87 | Thu Oct 04 13:59 | 00:01:47 (Down) | 128 | | |
| Device (CW) @ 5640.00 MHz | -86.3 | 86 | Thu Oct 04 14:01 | 00:00:32 (Down) | 128 | | |
| ☐ Wi-Fi APs (In-Network) [2] | | | | | | | |
| ALIENWARE-HP_Network (C | -86.0 | | Thu Oct 04 13:57 | 00:07:15 | 13 | 00:18:E7:8C:53:68 | 00:18:E7:8C:53:68 |
| ALIENWARE-HP Network (C | -86.0 | | Thu Oct 04 14:02 | 00:00:19 (Down) | 3438 | 00:18:E7:8C:53:6A | 00:18:E7:8C:53:6A |

| 5 GHz interference | | | | | | | | | |
|----------------------|---------|--|--|--|--|--|--|--|--|
| Device | Channel | | | | | | | | |
| Device(CW) | 128 | | | | | | | | |
| Device(CW) | 128 | | | | | | | | |
| ALIENWARE-HP_Network | 34-38 | | | | | | | | |
| ALIENWARE-HP_Network | 34-38 | | | | | | | | |

3.18 Site – LCFR 77

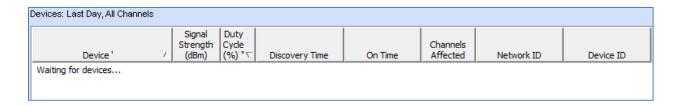
| Devices: Currently Active, All Cha | anne | els | | | | | | |
|------------------------------------|------|-----------------------------|-----------------------------|------------------|----------|----------------------|-------------------|-------------------|
| Device ' | Α | Signal Strength (dBm) | Duty Cycle (%) " \tau | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
| ☐ Wi-Fi APs (In-Network) [6] | | | | | | | | |
| JadeMonkey (Ch 6) | | -82.0 | | Thu Oct 04 12:44 | 00:01:45 | 39 | 58:6D:8F:17:12:CF | 58:6D:8F:17:12:CF |
| JadeMonkey-guest (Ch 6) | | -80.0 | | Thu Oct 04 12:44 | 00:01:45 | 39 | 58:6D:8F:17:12:D1 | 58:6D:8F:17:12:D1 |
| judy patz (Ch 11) | | -91.0 | | Thu Oct 04 12:45 | 00:00:00 | 1012 | 00:1E:2A:77:86:D8 | 00:1E:2A:77:86:D8 |
| MOTOROLA-36B0B (Ch 1) | | -66.0 | | Thu Oct 04 12:39 | 00:06:45 | 14 | CC:7D:37:EC:8D | CC:7D:37:EC:8D |
| westell3237 (Ch 6) | | -87.0 | | Thu Oct 04 12:45 | 00:00:00 | 48 | 0C:D5:02:42:25:69 | 0C:D5:02:42:25:69 |
| westell8349 (Ch 6) | | -74.0 | | Thu Oct 04 12:39 | 00:06:45 | 48 | 0C:D5:02:8C:B3:AB | 0C:D5:02:8C:B3:AB |

3.19 Site – LCFR 78

| Devices: Currently Active, All Cha | Devices: Currently Active, All Channels | | | | | | | | | | | |
|------------------------------------|---|---|------------------|----------|----------------------|-------------------|-------------------|--|--|--|--|--|
| Device ' | Signa Streng (dBm) | , | Discovery Time | On Time | Channels Affected | Network ID | Device ID | | | | | |
| ☐ Wi-Fi APs (In-Network) [3] | | | | | | | | | | | | |
| Dolores (Ch 1) | -85.0 | | Tue Oct 02 15:44 | 00:05:15 | 13 | 00:18:F8:3B:57:E3 | 00:18:F8:3B:57:E3 | | | | | |
| WELCOME (Ch 11) | -88.0 | | Tue Oct 02 15:39 | 00:09:45 | 813 | 00:0B:85:2C:51:2E | 00:0B:85:2C:51:2E | | | | | |
| WLCBCC (Ch 11) | -89.0 | | Tue Oct 02 15:47 | 00:01:45 | 913 | 00:0B:85:2C:51:2A | 00:0B:85:2C:51:2A | | | | | |

3.20 Site – LCFR 82

No source of interference where detected at this site.



3.21 Site – LCFR 83

| | Signal Strength | Duty Cyde | | | Channels | | |
|------------------------------|--------------------|--------------|------------------|----------|----------|-------------------|-------------------|
| Device ' | (dBm) | (%) "∇ | Discovery Time | On Time | Affected | Network ID | Device ID |
| ☐ Generic - Continuous [1] | | | | | | | |
| Device (CW) @ 5640.00 MHz | -85.5 | 90 | Thu Oct 04 12:17 | 00:02:45 | 128 | | |
| ☐ Wi-Fi APs (In-Network) [1] | | | | | | | |
| karen (Ch 6) | -74.0 | | Thu Oct 04 12:14 | 00:06:30 | 39 | 00:14:BF:05:CC:D3 | 00:14:BF:05:CC:D3 |

| 5 GHz interference | | | | |
|--------------------|---------|--|--|--|
| Device | Channel | | | |
| Device(CW) | 128 | | | |

3.22 Site – LCFR 109

| evices: Currently Active, All Channe Device ' | Signal Strength (dBm) | Duty Cycle (%) "∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
|--|-----------------------------|-------------------------|------------------|----------|----------------------|-------------------|-------------------|
| ☐ Bluetooth [1] | (====) | () | | | | | |
| Bluetooth Paging/Inquiry De | -64.3 | | Thu Oct 04 10:35 | 00:12:00 | N/A | 43:74:DA | |
| ☐ Wi-Fi APs (In-Network) [3] | | | | | | | |
| BHNDDW36115DD0 (Ch 1) | -88.0 | | Thu Oct 04 10:47 | 00:00:15 | 13 | E4:D5:3D:09:49:AF | E4:D5:3D:09:49:AF |
| Cisco4756 (Ch 11) | -90.0 | | Thu Oct 04 10:47 | 00:00:15 | 1012 | 44:58:29:76:02:34 | 44:58:29:76:02:34 |
| linksys (Ch 6) | -88.0 | | Thu Oct 04 10:47 | 00:00:15 | 48 | 00:1A:70:D1:65:66 | 00:1A:70:D1:65:66 |

3.23 Site – LCFR 110

| Device' / | Signal Strength (dBm) | Duty Cyde (%) *∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
|------------------------------|-----------------------------|------------------------|------------------|-----------------|----------------------|-------------------|-------------------|
| ☐ Bluetooth [1] | | | | | | | |
| Bluetooth Paging/Inquiry De | -45.6 | | Thu Oct 04 10:08 | 00:01:05 (Down) | N/A | 9E:8B:33 | |
| ☐ Wi-Fi Ad Hocs [1] | | | | | | | |
| LO56 (Ch 1) | -80.0 | | Thu Oct 04 10:10 | 00:01:14 (Down) | 14 | 02:2C:9C:EB:23:EB | 02:2C:9C:EB:23:EB |
| ☐ Wi-Fi APs (In-Network) [9] | | | | | | | |
| AirMaxInternet.com (Ch 1) | -91.0 | | Thu Oct 04 10:13 | 00:00:00 | 12 | 00:27:22:28:89:C8 | 00:27:22:28:89:C8 |
| NETGEAR (Ch 1) | -88.0 | | Thu Oct 04 10:13 | 00:00:37 (Down) | 13 | E0:46:9A:2D:79:EE | E0:46:9A:2D:79:EE |
| NETGEAR (Ch 1) | -89.0 | | Thu Oct 04 10:12 | 00:00:18 (Down) | 12 | E0:46:9A:2D:79:EE | E0:46:9A:2D:79:EE |
| NETGEAR31 (Ch 1) | -91.0 | | Thu Oct 04 10:13 | 00:00:18 (Down) | 12 | 20:4E:7F:31:E2:42 | 20:4E:7F:31:E2:42 |
| NETGEAR31 (Ch 1) | -84.0 | | Thu Oct 04 10:11 | 00:00:19 (Down) | 13 | 20:4E:7F:31:E2:42 | 20:4E:7F:31:E2:42 |
| NETGEAR31 (Ch 1) | -84.0 | | Thu Oct 04 10:11 | 00:00:19 (Down) | 13 | 20:4E:7F:31:E2:42 | 20:4E:7F:31:E2:42 |
| westell6197 (Ch 6) | -87.0 | | Thu Oct 04 10:13 | 00:00:00 | 48 | 74:44:01:AD:CB:85 | 74:44:01:AD:CB:85 |
| westell6197 (Ch 6) | -87.0 | | Thu Oct 04 10:11 | 00:02:30 (Down) | 48 | 74:44:01:AD:CB:85 | 74:44:01:AD:CB:85 |
| westell6267 (Ch 6) | -89.0 | | Thu Oct 04 10:12 | 00:00:19 (Down) | 57 | 0C:D5:02:5A:53:7B | 0C:D5:02:5A:53:7B |

3.24 Site – LCFR 111

| Device' / | Signal Strength (dBm) | Duty Cycle (%) "∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
|------------------------------|-----------------------------|-------------------------|------------------|-----------------|----------------------|-------------------|-------------------|
| ☐ Bluetooth [1] | (GDIII) | (70) | Discovery Time | Office | Arrected | THE CHOICE ID | Device 1D |
| Bluetooth Paging/Inquiry De | -50.7 | | Thu Oct 04 09:35 | 00:02:22 (Down) | N/A | 9E:8B:33 | |
| □ Wi-Fi Ad Hocs [4] | | | | , | | | |
| hpsetup (Ch 6) | -76.0 | | Thu Oct 04 09:37 | 00:05:15 | 48 | 36:A9:05:0D:8E:E6 | 36:A9:05:0D:8E:E6 |
| hpsetup (Ch 6) | -84.0 | | Thu Oct 04 09:36 | 00:00:28 (Down) | 48 | 36:A9:05:0D:8E:E6 | 36:A9:05:0D:8E:E6 |
| hpsetup (Ch 6) | -85.0 | | Thu Oct 04 09:35 | 00:00:47 (Down) | 48 | 36:A9:05:0D:8E:E6 | 36:A9:05:0D:8E:E6 |
| hpsetup (Ch 6) | -84.0 | | Thu Oct 04 09:34 | 00:00:18 (Down) | 48 | 36:A9:05:0D:8E:E6 | 36:A9:05:0D:8E:E6 |
| □ Wi-Fi APs (In-Network) [3] | | | | | | | |
| linksys (Ch 6) | -87.0 | | Thu Oct 04 09:38 | 00:03:45 | 57 | 00:12:17:DA:AA: | 00:12:17:DA:AA: |
| linksys (Ch 6) | -87.0 | | Thu Oct 04 09:37 | 00:01:24 (Down) | 57 | 00:12:17:DA:AA: | 00:12:17:DA:AA: |
| linksys (Ch 6) | -87.0 | | Thu Oct 04 09:35 | 00:00:19 (Down) | 48 | 00:12:17:DA:AA: | 00:12:17:DA:AA: |

3.25 Site – Gun Range

No sources of interference where detected at this site.

| Devices: Last Day, All Channe | els | | | | | | | |
|-------------------------------|-----|-----------------------------|-------------------------|----------------|---------|----------------------|------------|-----------|
| Device ' | Δ | Signal Strength (dBm) | Duty Cycle (%) "∇ | Discovery Time | On Time | Channels Affected | Network ID | Device ID |
| Waiting for devices | | | | | | | | |
| | | | | | | | | |

4.0 OUTDOOR WIRELESS COVERAGE

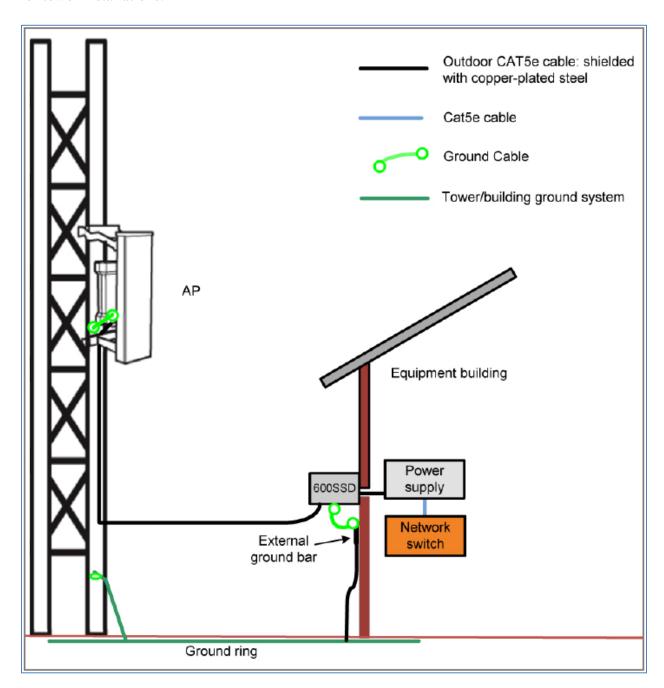
The following site will also require outdoor wireless coverage. The recommended access point to provide coverage is the Motorola 7181 series access point. This is to provide additional outdoor coverage for wireless clients and devices.

- Gun Range
- Radio Shop

| Part Number | Description | Qty |
|-------------|--|-----|
| HK1860A | AP-7181 802.11n AC Power | 2 |
| 5871322H01 | MotoMesh Duo US Power Adp | 2 |
| HKLN4446A | AP-7181 Sunshield | 2 |
| RLN6197A | AP7181 Mnt kit pole adp | 2 |
| RLN6199A | AP7181 Mnt kit wall adp | 2 |
| RLN6198A | AP7181 Mnt kit Gooseneck | 2 |
| HKVN4033A | AP7181 1yr Ext Warr | 2 |
| HKLN4445A | AP7181 Antenna Hardware | 2 |
| RVN5204B | CAMBIUM Wireless Manager Base Software | 1 |
| RVN5208B | MOTOROLA Wireless Manager Software | 1 |
| RVN5215A | MOTOMESH Duo Management Base WM | 1 |

5.0 GROUNDING METHODS

The following section provides illustrations showing proper mounting and grounding techniques for tower installations.



6.0 BILL OF MATERIALS

Below is a list of the hardware required for each remote and tower site. Items such as outdoor rated CaT6 cable, grounding cable and weatherproofing material will be provided directly for installation crews.

Tower site:

| Part Number | Description | Qty |
|--------------|---|-----|
| C054045A002A | PMP 450 Connectorized Access point | 19 |
| 85009325001 | 60 Degree Sector Antenna (H+V OFDM, FSK Input) | 19 |
| 30009406002 | N-Type t N-Type Cable (16 inch length) | 57 |
| ACPS120WA | CMM4 Power supply | 9 |
| 600SSD | Surge Suppressor | 38 |
| 1091AA | CMM4 with Ruggedized Switch and GPS outdoor Enclosure | 9 |
| C000045K001A | PMP interoperability License Key | 19 |
| SG00TS4017A | PMP450 Extended Warranty, 2 Additional years | 19 |

Remote sites:

| Part Number | Description | Qty |
|-------------------|--|-----|
| CO54045C002A | PMP 450 Subscriber Module, 10 Mbps | 25 |
| ACPSSW-09B | Power Supply | 25 |
| HK2022A | Reflector Dish kit | 7 |
| 600SSD | Surge Suppressor | 50 |
| SMMB1A | Universal Mounting Kit | 25 |
| SG00TS4018A | PMP 450 SM extended Warranty, 2 additional Years | 25 |
| 55' Mounting post | Hapco 55' pole provided by Besco Electric* | 11 |
| 89' Mounting post | Durastress Concrete 89' pole* | 13 |

^{*}Recommended vendor for outdoor mounting poles.

7.0 HARDWARE SPECIFICATIONS

Below are the details for the Motorola PMP 450 series antenna.

| PMP 450 ACCESS POIN | Т |
|---------------------|--|
| Model Numbers | C054045A001A, C054045A002A |
| SPECTRUM | |
| Frequency Range | 5470 - 5875 MHz |
| Channel Width | 10 MHz (OFDM-only mode) or 20 MHz |
| Channel Spacing | 10 and 20 MHz Channels: Configurable in 5 MHz increments |
| INTERFACE: | |
| Physical Layer | 2x2 MIMO OFDM, FSK |
| MAC Layer | Cambium proprietary |
| Ethernet Interface | 10/100 BaseT; half/full duplex; rate auto-negotiated (802.3 compliant) |
| Protocols Used | IPv4, UDP, TCP, IP, ICMP, Telnet, SNMP, HTTP, FTP |
| Network | HTTP, Telnet, FTP, SNMP v2c |
| Management | |
| VLAN | 802.1ad (DVLAN Q-in-Q), 802.1Q with 802.1p priority, dynamic port VID |

| PERFORMANCE: | |
|--------------------------|--|
| Subscribers Per Sector | Up to 200 |
| ARQ | Yes |
| Nominal Receive | |
| Sensitivity (w/FEC) @ 10 | |
| MHz Channel | OFDM: 2X = -83, 4X = -77, 6X = -69 |
| Nominal Receive | |
| Sensitivity (w/FEC) @ 20 | |
| MHz Channel | OFDM: 2X = -80, 4X = -74, 6X = -66 FSK: 1X = -85, 2X = -80 |
| Maximum Deployment | |
| Range | Up to 20 miles |
| Modulation Levels | OFDM: 2X = QPSK, 4X = 16QAM, 6X - 64QAM (MIMO-B) |
| (Adaptive) | FSK: 1X = 2-Level FSK, 2X = 4-Level FSK |
| Latency | 3 to 5 ms |
| GPS Synchronization | Yes, via CMM3, CMM4, or UGPS |
| Quality of Service | DiffServ QoS |
| LINK BUDGET: | |
| Antenna Beam Width | 60° sectors (H+V+FSK patch) or 90° sectors are available |
| | OFDM: -30 to +22 dBm (combined, to EIRP limit by |
| Transmit Power | region); 1 dB intervalFSK: -30 to +23 dBm (1 dB interval) |
| | 17 dBi H+V, 9 dBi FSK patch (with 60° sector antenna) 17 |
| Antenna Gain | dBi H+V (with 90° sector antenna) |
| Maximum Transmit | |
| Power | 22 dBm combined OFDM, 23 dBm FSK |

| PHYSICAL: | |
|--------------------|--|
| Wind survival | 118 mph (190 kph) |
| Antenna Connection | 50 ohm, N-type (Dual Polarization OFDM), FSK V-Pol |
| Mean Time Between | |
| Failure (MTBF) | > 40 years |
| Environmental | IP67 |
| Temperature | -40° F to +131° F (-40° C to +55° C) |
| | 13 lbs (5.9 kg) with antenna 5.5 lbs (2.5 kg) without |
| Weight | antenna |
| Wind Loading | 90 lb (173 N) |
| | Radio: 10.6" x 8.3" x 2.8" (27 x 21 x 7 cm) Antenna: 20.2" |
| Dimensions (HxWxD) | x 5.1" x 2.9" (51 x 13 x 7.3 cm) |
| Maximum Power | |
| Consumption | 18 W |
| Input Voltage | 24 to 30 V |
| SECURITY: | |
| Encryption | 56-bit DES; 128-bit AES |
| CERTIFICATIONS: | |
| FCC ID | Z8H89FT0002 (5.4 GHz grant in future release) |
| CE | TBD |
| IC Certificate | 109W-0002 |

7.1 Motorola AP 7181 Specifications

Radio Features

802.11 b/g/n Radio

Operating Frequency: 2.4-2.462 GHz Modulations:

- Orthogonal Frequency Division Multiplexing (OFDM)
- (BPSK, QPSK, 16-QAM, 64-QAM)
- 802.11b DSS (BPSK, QPSK, CCK)

3x3 MIMO with 2 Data Streams

Supported Channels: 20 and 40 MHz Maximum Transmit Power:

36 dBm EIRP*

Settable in 1 dB increments

Receiver Sensitivity

- 802.11g 2.4 GHz: -78 dBm @ 54 Mbps to -89 dBm @ 6 Mbps
- 802.11n 2.4 GHz: -70 dBm @ MCS 15 to -80 dBm @ MCS0

802.11 a/n Radio

Operating Frequency: 5.470-5.865 GHz (ETSI/EU), 5.725-5.850 GHz (FCC/IC)

Modulations:

- Orthogonal Frequency Division Multiplexing (OFDM)
- (BPSK, QPSK, 16-QAM, 64-QAM)

3x3 MIMO with 2 Data Streams

Supported Channels: 20 and 40 MHz Maximum Transmit Power:

32 dBm EIRP

Settable in 1 dB increments

Receiver Sensitivity

- 802.11a 5.x GHz: -72 dBm @ 54 Mbps to -89 dBm @ 6 Mbps
- 802.11n 5.x GHz: -63 dBm @ MCS15 to -88 dBm @ MCS0

DFS Support:

ETSI EN 301 893 v1.5.1 for 5.4 GHz ETSI EN 302 502 v1.2.1 for 5.8 GHz

Antenna Specifications

ADvanced Element Panel Technology (ADEPT)

- Integrated 2.4/5.x GHz antenna system
- Dual polarization
- Software configurable down tilt antennas
- · Optional remote mounted panel antennas

AC Option: 100 – 240 VAC at 47-63 Hz AC Power Consumption: 84 Watts Average, 126 Watts Peak

DC Option: 48 VDC

Hardware Specifications

DC Power Consumption: 66 Watts

Average, 99 Watts Peak

Ethernet Ports:

- 2 ports auto sensing 10/100/1000
 Base-T Ethernet
- RJ45 Console port
- Integrated 802.3af PoE out Hardware reset button Network status LEDs

Dimensions: (height x diameter at widest point): 15.35" x 14" (39cm x 35.5cm) Weight: 39 pounds (17,7 kilograms)

Environmental Specifications

Operating: -40 to +55 °C Storage: -40 to +85 °C

Humidity: 5 to 95 % RH non-condensing Enclosure:

- IP67 rated, corrosion resistant enclosure
- ASTM B117 salt, fog, and rust resistance
 Wind Ratings: Wind survivability >

Operational Shock: MIL-STD-516.5

Procedure

160 Mph

Operational Vibration: MIL-STD-810F method 514.5A Procedure

Routing Protocol

MeshConnex™

- Layer 2 based routing providing greater performance and less overhead
- Multi-Radio mesh allows meshing on each radio
- Automatic neighbor detection and route determination
- Self-healing enabled by dynamic path selection

Security

Client Security: WPA, WPA2-PSK, WEP, 802.11i, RADIUS, 802.1X (includes EAP-TLS, EAP-TTLS)

Encryption: WEP, AES-CCM, TKIP Intra-Mesh Encryption: Secure Mesh

with AES

Authentication: 802.1x

(Infrastructure/Client) and MAC address

hardware authentication

Software Features

- 16WLANs
- · Multi-Radio mesh routing
- 802.11e OoS
- 4 BSSIDs per radio
- · On demand channel scan
- Auto channel select
- Frame aggregation
- WEB-based GUI for local configuration
- Ethernet filters

Management

One Point Wireless Manager

- Device discovery
- Inventory management
- Alarm/event management
- · Google Maps network view
- Over-the-air upgrades
- Fault, Configuration, Administration, Performance and Security (FCAPS)

BroadbandPlanne

- Performance prediction tools
- Streamline mesh deployments

Approvals

FCC CFR 47 Part 15, Class B Subpart C Industry Canada RSS 210

UL 60950-1, -22 CE

EN 301 489-17

EN 300 328 EN 302 502 v1.2.1

EN 301 893 v1.5.1 DFS

CB - IEC 60950-1, -22

RoHS/WEEE, EPP, CMM

Optional Accessories

Optional mounting kits

US, EU, DC power cables

Optional remote mounted panel antennas Street light power tap adaptor

Warranty

One (1) year on hardware, parts and software

*Transmit power may vary based upon the deployed country.

8.0 CONCLUSION

Presidio Networked Solutions would like to thank the Lake County Board of County Commissioners for the opportunity to work with you on this portion of your wireless project. It is our sincere wish that you are completely satisfied with the final product and look forward to working with you again.